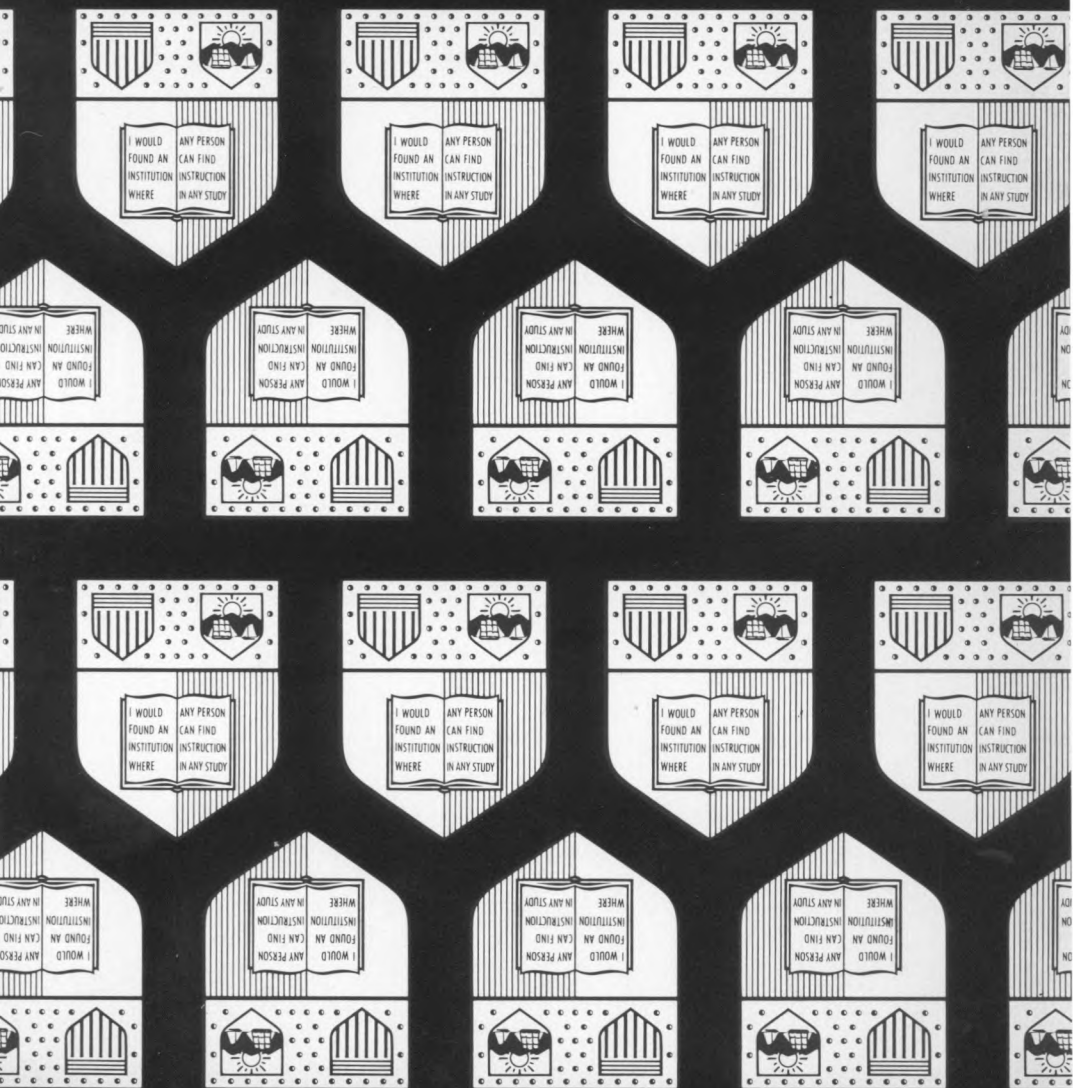
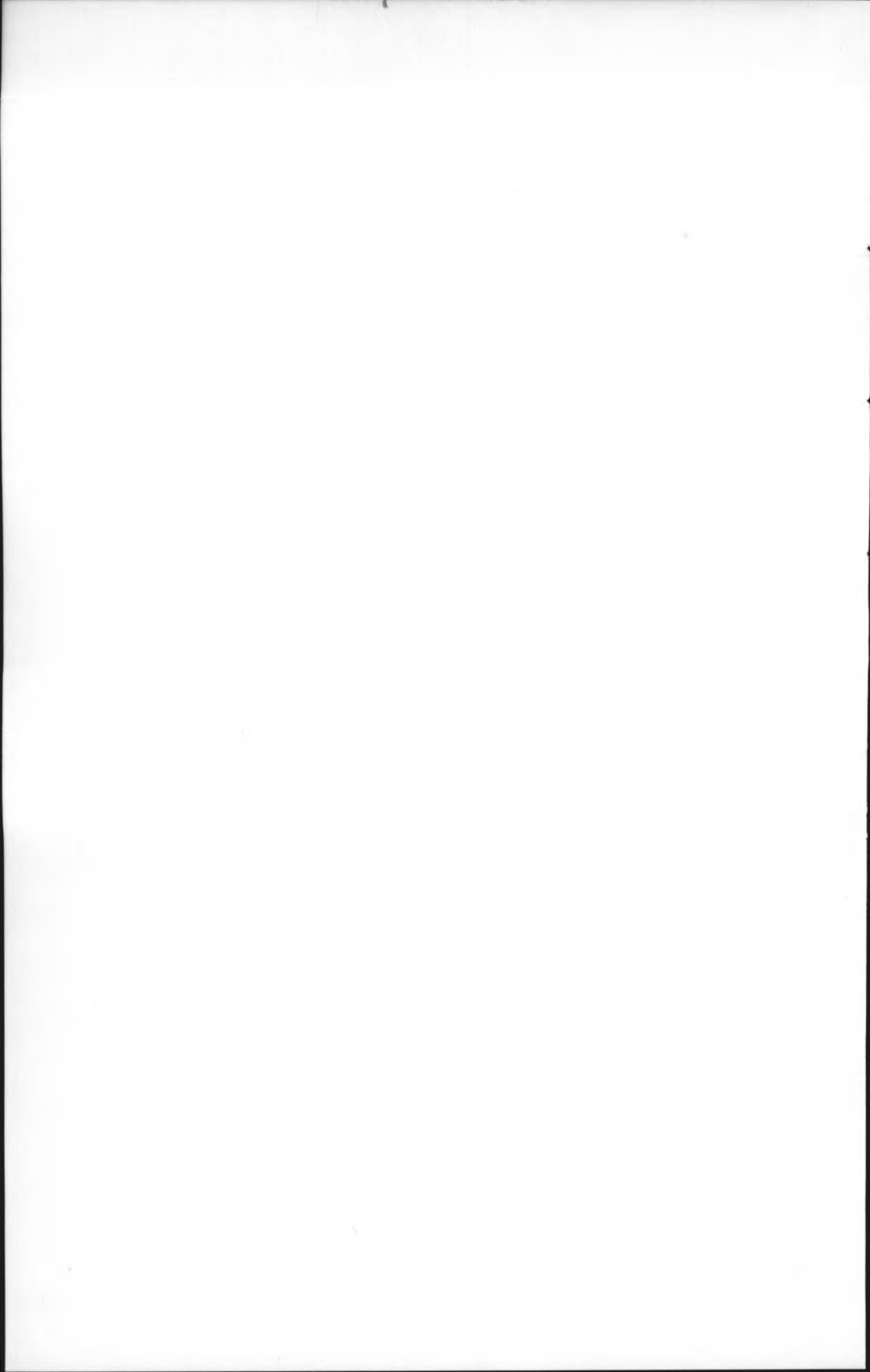


# Cornell University Announcements

# Medical College







## **Cornell University**

**Medical College  
1300 York Avenue  
New York, New York 10021  
Telephone 212/472-5454**

**1979-80**

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## Announcements

## Contents

4	Calendar
9	The Medical College
9	Facilities for Instruction
13	Admissions
15	Educational Policies and Plan of Instruction
16	Advancement and Graduation
17	Examinations for Medical Licensure
17	Fees and Expenses
18	Financial Aid
26	Named Professorships
27	Form of Bequests
28	Honorary Societies
28	Alumni Association
28	Personnel Health Service
28	Residence Halls
31	Departments of Instruction
57	Schedules, 1979-80
63	Register
63	Administration
65	Faculty of the Medical College
128	Internship Appointments
130	Students, 1979-80
139	Index
140	Aerial View

The provisions of this publication are not to be regarded as an irrevocable contract between the student and Cornell University Medical College. The University reserves the right to change any provision or requirement at any time.

**1979-80**

## **Medical College Calendar**

### **First Year**

#### **1979**

Monday, September 3  
Tuesday and Wednesday, September 4 and 5  
Wednesday, September 5  
Thursday, September 6  
Wednesday, November 14  
Thursday, November 15-Wednesday,  
November 21  
Thursday and Friday, November 22 and 23  
Monday, November 26  
Friday, December 14

Labor Day  
Registration and orientation  
Opening exercises, 3:00 p.m.  
Instruction begins, 9:00 a.m.  
First trimester ends, 5:00 p.m.  
Examinations  
  
Thanksgiving holiday  
Second trimester begins, 9:00 a.m.  
Winter recess begins, 5:00 p.m.

#### **1980**

Wednesday, January 2  
Monday, February 18  
Friday, February 22  
Monday, February 25-Friday, March 7  
Monday, March 10  
Saturday, April 12-Sunday, April 20  
Monday, April 21  
Monday, May 26  
Friday, May 30  
Monday, June 2-Friday, June 6

Winter recess ends; instruction begins, 9:00 a.m.  
Washington's Birthday  
Second trimester ends, 5:00 p.m.  
Examinations  
Third trimester begins, 9:00 a.m.  
Spring recess  
Instruction begins, 9:00 a.m.  
Memorial Day  
Instruction ends, 5:00 p.m.  
Examinations

The dates on this calendar are subject to change at any time by official action of Cornell University.

In enacting this calendar, the Medical College has scheduled classes on religious holidays. It is the intent of the college that students missing classes due to the observance of religious holidays be given ample opportunity to make up work.

**Second Year**

**1979**

Monday, September 3	Labor Day
Tuesday and Wednesday, September 4 and 5	Registration
Wednesday, September 5	Opening exercises, 3:00 p.m.
Thursday, September 6	Instruction begins, 9:00 a.m.
Wednesday, November 14	First trimester ends, 5:00 p.m.
Thursday, November 15-Wednesday, November 21	Examinations
Thursday and Friday, November 22 and 23	Thanksgiving holiday
Monday, November 26	Second trimester begins, 9:00 a.m.
Friday, December 14	Winter recess begins, 5:00 p.m.

**1980**

Wednesday, January 2	Winter recess ends; instruction begins 9:00 a.m.
Monday, February 18	Washington's Birthday
Wednesday, February 20	Second trimester ends, 5:00 p.m.
Thursday, February 21-Friday, February 29	Examinations
Saturday, March 1-Sunday, March 9	Spring recess
Monday, March 10	Third trimester begins, 9:00 a.m.
Friday, May 23	Instruction ends, 5:00 p.m.
Monday, May 26	Memorial Day
Tuesday, May 27-Friday, May 30	Examinations

## Third Year Rotations

	Period 1				Period 2				Period 3				Period 4						
	Sept. 4	Oct. 1	Oct. 15	Oct. 29	Nov. 26	Dec. 22	Jan. 2	Jan. 14	Jan. 28	Feb. 25	Mar. 24	Apr. 5	Apr. 14	Apr. 28	May 27	June 23	July 7	July 21	Aug. 16
Rotation IA	Psychiatry		PH	Neurology	Psychiatry	Winter Recess	Psych. cont.	PH	Neurology	Psychiatry		Spring Recess	PH	Neurology	Psychiatry		PH	Neurology	
Rotation IB	Neurology	PH	Psychiatry		Neurology		PH	Psychiatry		Neurology	PH		Psychiatry		Neurology	PH	Psychiatry		
Rotation IIA	Pediatrics		Obstetrics and Gynecology		Pediatrics		Pediatrics, cont.	Obstetrics and Gynecology		Pediatrics			Obstetrics and Gynecology		Pediatrics		Obstetrics and Gynecology		
Rotation IIB	Obstetrics and Gynecology		Pediatrics		Obstetrics and Gynecology		Ob.-Gyn. cont.	Pediatrics		Obstetrics and Gynecology			Pediatrics		Obstetrics and Gynecology		Pediatrics		
Rotation III	Surgery				Surgery		Surgery				Surgery		Surgery		Surgery				
Rotation IV	Medicine				Medicine	Medicine				Medicine		Medicine		Medicine					

**1979**

Monday, September 3  
 Tuesday, September 4  
 Wednesday, September 5  
 Thursday and Friday, November 22 and 23  
 Monday, November 26  
 Saturday, December 22

Labor Day  
 Registration; Period 1 begins, 8:00 a.m.  
 Opening exercises, 3:00 p.m.  
 Thanksgiving holiday  
 Period 2 begins, 8:00 a.m.  
 Winter recess begins, 1:00 p.m.

**1980**

Wednesday, January 2  
 Monday, February 18  
 Monday, February 25  
 Saturday, April 5  
 Monday, April 14  
 Monday, May 26  
 Tuesday, May 27  
 Friday, July 4  
 Saturday, August 16

Classes resume, 8:00 a.m.  
 Washington's Birthday  
 Period 3 begins, 8:00 a.m.  
 Spring recess begins, 1:00 p.m.  
 Classes resume, 8:00 a.m.  
 Memorial Day  
 Period 4 begins, 8:00 a.m.  
 Independence Day  
 Instruction ends, 1:00 p.m.

**Fourth Year**

**1979**

Monday, September 3  
 Tuesday, September 4  
 Wednesday, September 5  
 Thursday and Friday, November 22 and 23  
 Saturday, December 15

Labor Day  
 Registration  
 Opening exercises, 3:00 p.m.  
 Thanksgiving holiday  
 Winter recess begins

**1980**

Wednesday, January 2  
 Monday, February 18  
 Friday, May 16  
 Tuesday, May 20

Winter recess ends  
 Washington's Birthday  
 Instruction ends  
 Commencement, 3:00 p.m.

**Elective Modules**

Module A  
 Module B  
 Module C  
 Module D  
 Module E  
 Module F  
 Module G

September 4-October 5  
 October 8-November 9  
 November 12-December 14  
 January 2-February 1  
 February 4-March 7  
 March 10-April 11  
 April 14-May 16



*The second site of The New York-Hospital on Sixteenth Street between Fifth and Sixth avenues. Courtesy of the Medical Archives, New York Hospital - Cornell Medical Center.*



## Cornell University

# The Medical College

### Purpose and History

Cornell University Medical College has as its aim excellence in its students who are chosen for admission with the expectation that they will be leaders in the field of medicine. It encourages research and the advancement of medical knowledge not only as an end in itself but also because science is the most important underpinning of the broad knowledge that a medical student must obtain in preparation for further graduate study. To the end that students may become leaders, Cornell strives to stimulate creativity and foster independent thought and study. That they may develop a sense of social commitment, it attempts to expose students to real-life responsibilities in a variety of practice settings, always with attention to the optimal care of patients.

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching opportunities available in a large metropolitan area. The original faculty was composed of a group of distinguished professors who previously had operated a teaching institution known as the Medical College Laboratory. The laboratory was at one time affiliated with the medical department of New York University.

The Trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the college for several years, later created a permanent endowment by donating a gift of more than \$4 million to the college.

The first dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, professor of surgery; Dr. James Ewing, professor of pathology, and Dr. Graham Lusk, professor of physiology. The college has been well known from the time of its establishment for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900, the college occupied its first permanent headquarters at Twenty-eighth Street and First Avenue. In 1927, the college entered into its first formal affiliation with The New York Hospital. The college was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

The Medical College moved to its present location in 1932, which marked the opening of The New York Hospital-Cornell Medical Center.

### Facilities for Instruction

#### The Medical College

Instruction in the medical sciences is conducted in a series of joined buildings along York Avenue from Sixty-eighth to Seventieth Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the library are on the first floor of this building. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. Additional research and teaching facilities, as well as the central animal care laboratories, are located between the A and B buildings in the William Hale Harkness Medical Research Building. The upper floors of the central portion of the Medical College house the Departments of Microbiology, Pathology, Physiology and Biophysics, and Public Health, along with the research laboratories for several of the clinical departments.

The Department of Anatomy is in the Stavros S. Niarchos Medical Research Building at Seventieth Street (Area A), and the building at the Sixty-eighth Street end of the college (Area E) houses the Departments of Biochemistry and Pharmacology. The central buildings of the college are joined to the main hospital buildings on each of the seven floors. The college auditorium, the student laboratories and lecture rooms for the basic science departments, and the extensive research facilities for staff and students are also housed in the buildings along York Avenue.

"S" BUILDING

East 71<sup>st</sup> Street

POWERHOUSE  
LAUNDRY  
GARAGE

HOSPITAL  
FOR  
SPECIAL  
SURGERY

East 70<sup>th</sup> Street

OUTPATIENT  
CLINIC

THE LYING-IN  
HOSPITAL

A

HARKNESS  
MEDICAL  
RESEARCH  
BUILDING

K

J

L

EMERGENCY

M

ELEVATORS

N

B

INFORMATION  
WOOD  
LIBRARY

C

ELEVATORS

F

PHONE

ELEVATORS

PHONE

ELEVATORS

F

PRIVATE  
PATIENTS  
ENTRANCE

PEDIATRICS

D

GRIFFIS  
FACULTY  
CLUB

G

PHONES

DOCTORS  
LOUNGE

INFORMATION

CHapel

GIFT  
SHOP

H

CASHIER

MAIN  
ENTRANCE

P

PAYNE  
WHITNEY  
CLINIC

CORNELL UNIVERSITY

MEDICAL COLLEGE

E

THE NEW YORK HOSPITAL-  
CORNELL MEDICAL CENTER

East 68<sup>th</sup> Street

York Avenue

East River Drive

## Graduate School of Medical Sciences

The Graduate School of Medical Sciences, one of the two academic units on Cornell's New York City campus, was organized in 1952 as a semiautonomous component of the Graduate School of Cornell University and is responsible for administering all advanced general degrees granted for study in residence on the New York City campus. The school is composed of two divisions: the Medical College Division, consisting of faculty members principally from the basic science departments of the Cornell University Medical College, and the Sloan-Kettering Division, consisting of staff members from the Sloan-Kettering Institute for Cancer Research.

The Graduate School of Medical Sciences currently offers graduate programs leading to the M.S. and Ph.D. degrees in eleven biomedical fields: biochemistry, biological structure and cell biology, biology, biostatistics, biophysics, genetics, microbiology, neurobiology and behavior, pathology, pharmacology, and physiology. These programs are designed for students interested in careers in teaching and research in the various basic biomedical sciences.

All of the facilities of the Cornell University Medical College and the Sloan-Kettering Institute for Cancer Research are available to graduate students. Such facilities include, in addition to well-equipped classrooms and libraries, unexcelled modern laboratories and equipment for research. For further details, refer to the *Announcement of the Graduate School of Medical Sciences*.

## The New York Hospital

Clinical instruction is given in the eleven separate departments forming The New York Hospital. The Medical and Surgical Departments occupy the central hospital building, the Women's Clinic (Lying-in Hospital), the Pediatric Department, and the Psychiatric Department (Payne Whitney Clinic) extend from north to south, overlooking the East River.

Each clinic contains facilities for bed patients, an outpatient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building with semiprivate areas for bed patients and three floors for the outpatient department. There are extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semiprivate beds and outpatient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are six floors containing 128 rooms for private patients. Living quarters for the resident staff are in the new house-staff residence across York Avenue. The entire hospital has a capacity of approximately 1,350 beds. The Westchester Division in White Plains, New York, contains an additional 281 beds. This division, together with the Payne Whitney Clinic, forms the Department of Psychiatry of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the hospital. The chairman is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the college and the hospital. Other members of the faculty devote part of their time to private practice.

## The Hospital for Special Surgery

The Hospital for Special Surgery, maintained by the New York Society for the Relief of the Ruptured and Crippled, was founded in 1863 as the first institution in the United States for the treatment of orthopedic conditions. It affiliated with The New York Hospital-Cornell Medical Center in 1949 and moved to its present location at 535 East Seventieth Street in 1955. The hospital consists of a modern facility containing 204 beds, caring for some 3,500 inpatients a year and 11,000 outpatients in nineteen subspecialty clinics. Twenty-four residents are trained in a three-year program in orthopedic surgery with an elective fourth year. The hospital maintains a school for the training of practical nurses.

The Philip D. Wilson Research Foundation was opened in 1960 to investigate the causes, prevention, and improvement in the treatment of orthopedic and rheumatic diseases.

The Hospital for Special Surgery provides the orthopedic and rheumatic diseases services for The New York Hospital-Cornell Medical Center.

## The Burke Rehabilitation Center

The Burke Rehabilitation Center, 785 Mamaroneck Avenue, White Plains, New York, was founded in April, 1915, by John Masterson Burke as a tribute to the memory of his mother, Winifred Masterson Burke. On March 14, 1968, the Burke Center became affiliated with The New York Hospital-Cornell Medical Center.

A 150-bed rehabilitation center accredited by the Joint Commission on Accreditation of Hospitals, the Burke Rehabilitation Center offers a multidisciplinary approach to the rehabilitation phase of total medical care. Since the primary objective of its program is the integration of the disabled patient into the community as a responsible individual functioning at maximum potential, the center offers its diagnostic, evaluative, and treatment services to those of all ages who have need for medical rehabilitative care.

The comprehensive program includes: services of physicians trained in rehabilitation and all other medical specialties, nursing care, nutritional research and therapy, occupational therapy, physical therapy, speech and hearing services, psychological and psychiatric services, social services, and vocational evaluation and training.

Among the research and study programs being conducted at the Burke Rehabilitation Center are: a demonstration research program in nutrition and metabolic disease, a stroke research study, a Parkin-

sonism research study, a cardiopulmonary study, and sociomedical studies.

## Manhattan Eye, Ear, and Throat Hospital

One of the world's principal centers for the diagnosis and treatment of disorders of sight, hearing, and speech, Manhattan Eye, Ear, and Throat Hospital became affiliated with Cornell University and The New York Hospital in 1968. In addition to its programs of patient care and treatment, this hospital now serves as Cornell University Medical College's teaching facility in ophthalmology and otorhinolaryngology and as a patient referral center for those specialties. Medical teaching is under the direction of the Medical College which, along with The New York Hospital, provides a wide range of consultative and other services not ordinarily available in a specialty hospital.

## Memorial Sloan-Kettering Cancer Center

Memorial Hospital is the clinical unit of the Memorial Sloan-Kettering Cancer Center. The Sloan-Kettering Institute for Cancer Research is the research unit.

In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with the Cornell University Medical College in 1914. The agreement between Memorial Hospital and the college requires that the professional staff of the hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital for Cancer and Allied Diseases has nearly 600 beds.

Sloan-Kettering Institute, founded in 1945, brought a major research establishment into this large and active cancer treatment center.

## North Shore University Hospital

North Shore University Hospital is a 599-bed, general care, voluntary institution in Manhasset, Long Island, serving heavily populated portions of Nassau, Suffolk, and Queens Counties. It became formally affiliated with Cornell University Medical College in 1969.

All members of the medical staff of North Shore University Hospital are appointed to the faculty of the Medical College and participate in its teaching programs. In addition, each clinical service has a staff of full-time faculty members involved in research, teaching, and clinical activities. Through outpatient and educational services, emergency facilities and outreach clinics, and an extensive home-care hospice program, North Shore University Hospital's community-oriented program provides an important experience for students in the Medical College. Opportunities for clinical instruction are provided in medicine, neurology, surgery, ophthalmology,

pediatrics, pathology, psychiatry, radiology, and obstetrics-gynecology at the second-, third-, and fourth-year student levels. Since 1967, joint programs of internship, residency, and fellowship training have been offered in conjunction with The New York Hospital and Memorial Sloan-Kettering Cancer Center.

## The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886 at 414 East Twenty-sixth Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

## The Russell Sage Institute of Pathology

The Russell Sage Institute of Pathology became associated with the Medical College in 1912, and moved its laboratories to the Medical Center in 1932. Since 1976, by agreement with the Russell Sage Foundation, its endowment has been administered by Cornell University. The institute has long supported research in metabolism and more recently work in genetics and human ecology. The chairman of the Department of Medicine is the scientific director of the Institute.

## Libraries

### Samuel J. Wood Library

The main library of the Medical College is located on the first floor of the Samuel J. Wood Library and Research Building, to the right of the 1300 York Avenue entrance at Sixty-ninth Street.

Fifteen hundred current journals are received and the total collection has reached more than 100,000 volumes. Participation in communication and library networks enables the library to produce needed items quickly.

The library is equipped with a communications terminal linked to a computer to provide searches of the medical literature. The information and reference department receives requests for these searches. Typing and duplicating services and, most importantly, a staff willing to help, are also available.

The library is open during the week from 8:45 a.m. until 11:00 p.m., on Saturdays from 9:00 a.m. until 5:00 p.m., and on Sundays from 1:00 p.m. until 11:00 p.m. The library is closed on Christmas and New Year's Day and the other holidays noted in the calendar, pages 4-7.

### Department Libraries

Several departments also have libraries housing journals and books pertaining to specific areas. These collections, photocopies of materials from other libraries, including the National Library of Medicine and all major medical and academic libraries in the United States, supplement the holdings of the main library.

### The Oskar Diethelm Historical Library

Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly 10,000 original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

## Admissions

### Requirements

In defining the qualifications for admission, the faculty of Cornell University Medical College attaches particular importance to the liberal and general education implied by the acquisition of a college degree. Although most applicants to the Medical College will have completed four years of college, possession of an undergraduate degree is not a requirement of candidates for the degree of Doctor of Medicine from Cornell University. Applications will be seriously and carefully considered from students who have completed only three years of undergraduate work and whose personal, educational, and social maturation seems to warrant earlier admission to the study of medicine. Some of these applicants may be able to satisfy the requirements for a baccalaureate degree in their colleges by successfully completing the first year of medical school.

The basic premedical requirements that all students must fulfill in order to qualify for admission to the study of medicine in New York State are published in the Regulations of the Commissioner of Education. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester credit hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing an irreducible minimum.

A sound preparation in biology, chemistry, and physics is essential for a student planning to study medicine, and course work in the behavioral sciences is becoming increasingly important. A student not majoring in one of the sciences should realize that a thorough basic training in the concepts and methods of science can only be acquired through rigorous laboratory experience. A science major, on the other hand, should not overlook the broad educational value of study in the humanities and social sciences. In planning premedical work, students are advised to elect subjects that will lay a broad foundation for medical study rather than to anticipate courses required in the medical curriculum.

### Selection

The Committee on Admissions of Cornell University Medical College each year selects a class of about

one hundred students from over 6,000 applicants. In doing so, the committee's goal is to accept the students they feel are best prepared to provide future leadership in the field of medicine. Each year the Medical College receives applications from many more candidates meeting the basic qualifications for the study of medicine than it can possibly accept. Thus, in addition to consideration of objective criteria, the evaluation of candidates also involves subjective judgments including an assessment of their motivation, maturity, stability, and other factors deemed by the faculty to be essential to the making of an effective and competent physician.

In order to be seriously considered for admission, candidates must demonstrate superior academic accomplishment at the undergraduate level, including completion of required course work. In addition, they must be of good moral character and possess the requisite sensory, cognitive, motor and organizational skills, including the ability to synthesize and apply knowledge, necessary to master the entire medical college curriculum. Cornell attempts to maintain a heterogeneous student body by selecting well-qualified students from diverse geographic, academic, and racial backgrounds. The number of students from any one college, region, race, or sex may thus vary from year to year. Well-motivated students from particularly adverse economic or social backgrounds who have had substandard educational opportunities are also admitted.

It is the policy of Cornell University actively to support equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age, or handicap. The University is committed to the maintenance of affirmative action programs which will assure the continuation of such equality of opportunity.

All policies regarding admissions, employment, and educational programs and activities are established and administered in conformity with the Education Practices Act of New York as well as state and federal civil rights laws, specifically including Title IX of the Education Amendments Act of 1972, and regulations thereunder, prohibiting practices or policies in admissions, educational programs, or employment that are in any way discriminatory on the basis of sex.

### Application

Application to Cornell University Medical College can be made only through the American Medical College Application Service (AMCAS) application process: American Medical College Application Service, Suite 301, 1776 Massachusetts Avenue, N.W., Washington, D.C. 20036. AMCAS is the sole distributor of application forms and instructions. These are obtained by forwarding an application request card to AMCAS. Request cards are available from premedical advisers and from medical schools. Upon receipt of the AMCAS application by Cornell, additional information will be requested and instructions



will be given about submission of letters of evaluation. The evaluation of a premedical advisory committee is preferred. If this is not available, two letters of evaluation from members of the undergraduate science faculty of the applicant's college, well acquainted with the student, may be substituted. After receipt of the supplementary information, the letters of evaluation, and the \$35 application fee, the Committee on Admissions will review carefully the completed application and will select students for personal interviews. The fee can be waived for financial reasons for those applicants who are eligible for AMCAS fee waivers.

From among the large number of applicants, the committee selects for personal interviews those students under serious consideration. Only rarely are students accepted by the Medical College without a personal interview.

The Committee on Admissions does not require an applicant to take the Medical College Admission Test (MCAT) but will review the scores if the examination has been taken.

The committee will notify applicants of its decisions after February 15. If the committee takes favorable action, a letter of acceptance is forwarded to the applicant who has two weeks to: (1) hold a place in the class in order to make a decision at a later date, but not later than March 10; or (2) accept a place in the class by sending a deposit of \$100. This deposit is deductible from the first tuition payment.

### Advanced Standing

When vacancies occur, students may be admitted with advanced standing. Only those students who have completed and passed examinations in their basic science course work as matriculated medical students in an accredited medical school are eligible for consideration for transfer to Cornell University Medical College. Applications for a place in the second- or third-year class may be obtained from the Office of Admissions, 445 East Sixty-ninth Street, New York, New York 10021, in February of the year for which admission is sought.

Applicants who are accepted are required to make a deposit of \$100, which is deductible from the first tuition payment. Candidates seeking admission with advanced standing must furnish evidence of having completed satisfactorily, in an accredited medical school, all of the work required of students in the class they wish to enter. Applicants must also have sent to us two letters of evaluation from their medical school faculty, as well as a certificate of good academic standing from the medical school, or schools, they attended. In addition, these candidates must have fulfilled the requirements for admission to the first-year class at Cornell University Medical College. They may be required to take examinations in any of the medical school courses taken in another school. Applicants for transfer into the third-year class must also pass all seven sections of the Part I examination of the National Board of Medical Examiners.

Additional information about the Medical College is contained in the booklet, *Information for the Applicant-1979*, which may be obtained from the Office of Admissions.

### Special Students

Special students are those students who are permitted to take required courses at the Medical College or Graduate School of Medical Sciences, but who are not degree candidates in either school. Generally the courses taken at Cornell must be essential to their degree program, as certified by the institutions at which they are candidates. Enrollment as a special student is not intended as preparation for admission to degree programs at Cornell or elsewhere. Special students are accepted only with the approval of the head of the department in which they will study and must demonstrate special qualifications in terms of preparation and ability. They must register with the Office of Academic Programs, Room C-118, and pay all tuition and fees before being permitted to attend classes or laboratories. There is a registration fee of \$15. A tuition schedule for courses is available through the Office of Academic Programs. No more than two required courses of the medical curriculum may be taken in a given academic year.

### Visiting Students

Visiting students are candidates for the M.D. degree at other medical schools who have a need in their degree programs to take elective courses offered by Cornell University Medical College. Registration and attendance in any elective course is through application to the Office of Academic Programs with certification by the dean of the parent school where the student will be given credit for the course, and with the approval of the sponsor of the elective course. A visiting student may enroll in no more than ten weeks of elective courses during any academic year. Adequate malpractice insurance covering the student's activities while in attendance at Cornell University Medical College must be provided by the parent medical school. No tuition will be charged by Cornell University Medical College.

### Auditing Students

Auditing students are individuals who attend lecture courses at the discretion of, and with the permission of, the department chairman. No courses offered by clinical departments may be audited. No records will be maintained and no credit will be given to students who audit courses. *Auditing students will not be permitted to take final examinations.* Conversion from the status of an auditing student to that of special or visiting student will not be permitted unless the request for conversion is made by the end of the second week of the course and the requirements of the requested status are met.

### Exchange Students

Exchange students are candidates for the M.D. degree at medical schools outside the United States that have formal student exchange programs with Cornell University Medical College. Those students are selected by the faculty of their medical school to participate in the program and their credentials are submitted for approval to the Office of Academic Programs at Cornell. Exchange students must have completed their major clinical education before they

seek further experience in clinical medicine, basic science, or clinical research at Cornell University Medical College. Students participate for a maximum of six months. Upon completion of this educational experience at Cornell, a faculty evaluation of the student's performance will be forwarded to the student's medical school. Matters such as malpractice and health insurance coverage, tuition, and housing are covered by special arrangements with the foreign medical school. Such agreements provide for similar educational opportunities for Cornell University Medical College students at the foreign medical school.

## Educational Policies and Plan of Instruction

The Medical College is divided into seventeen departments. Seven of the departments are concerned primarily with the sciences underlying clinical medicine; they are the Departments of Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology and Biophysics, and Public Health. Ten departments have as their major function the study, treatment, and prevention of human diseases, and maternity care; they are the Departments of Anesthesiology, Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Otorhinolaryngology, Pediatrics, Psychiatry, Radiology, and Surgery.

Responsibility for the educational policies of the Medical College is shared by the Executive Faculty Council, consisting of the academic administrative officers and the chairpersons of those departments with major teaching commitments to medical students, and the General Faculty Council composed of elected faculty representatives from all departments of the Medical College. The Medical Student Executive Committee consists of elected representatives from each of the four classes of medical students and serves as a forum for student opinion and for communication between faculty and students.

Every department offers courses that must be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University. The courses are arranged in their sequence and duration to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine.

In order to fulfill its responsibility and desire to continue and further the high standards and excellence of the academic programs at Cornell, the faculty reserves the right to make changes in the curriculum at any time.

The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the Medical College curriculum. The time

devoted by the prospective physician to preparation for the practice of medicine includes at least one year, and often many more years, of graduate medical education as intern or resident in a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the college to encourage the student to vary his or her course of study according to special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work, as time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote time to a single subject in which they have a special interest. The development of great technical proficiency in the various fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

### First-Year Curriculum

The first year of study is devoted to anatomy, biochemistry, physiology, neurosciences, psychiatry, and introductory medicine, including the basic elements of physical examination, interviewing techniques, and the sociological determinants of disease. Clinical conferences are presented in these courses to illustrate the application of the basic sciences to clinical medicine. A series of weekly interdisciplinary sessions explores a wide range of medical topics, again emphasizing the interrelationships of the basic sciences to each other and to clinical medicine.

### Second-Year Curriculum

In the second year, the basic sciences of microbiology, pharmacology, and pathology are completed and the full-time clinical curriculum is begun with physical diagnosis, neurology, psychiatry, and public health. Weekly clinical pathological conferences serve as a continuing point of integration of the basic and clinical sciences.

### Summers

In addition to scheduled time for electives during the first two years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work, if a student wishes.

### Third-Year Curriculum

Clerkships of four to twelve weeks' duration, in the forty-eight week (September through August) third-year curriculum, provide a sound basic introduction to all the major clinical fields. When students have completed this clinical core curriculum, they are sufficiently acquainted with the various clinical

specialties to have identified their primary areas of interest, both in the clinical and basic science fields. Accordingly, they are prepared to plan an educational program for their final medical school year that is best suited to their interests and needs.

In the spring of the third year, each student chooses a senior faculty member as an adviser to help in planning the fourth-year program. Numerous elective opportunities available in the Cornell Medical Center are described in the *Catalog of Electives*. Other electives in the center or in other educational institutions may be arranged with the approval of the student's elective adviser.

#### Fourth-Year Curriculum

The fourth year is a time when students can correlate the preceding experiences of medical school, begin to function effectively in the physician's role, and sharpen their clinical skills in preparation for residency training. Presently at Cornell, the fourth-year curriculum is largely elective and students have latitude in choosing their own programs. Under consideration is a curriculum that will provide for each student a "subinternship," substantial longitudinal experiences in the Outpatient Department and opportunities for basic research or clinical investigation in addition to a number of elective choices.

#### Summer Fellowships

Several fellowships are available for selected students who wish to participate in investigative work during the summers following the first and second years.

#### One-Year Research Fellowships

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of choice. Such research opportunities are available in all departments of the Medical College. A leave will be considered for investigative work in other institutions. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

#### Coordinated M.D.-Ph.D. Programs

For students interested in teaching and research careers in the basic biomedical sciences or in clinical medicine, two combined M.D.-Ph.D. programs are offered at Cornell University Medical College.

1. One M.D.-Ph.D. program is coordinated between Cornell University Medical College and the Cornell University Graduate School of Medical Sciences, and is described in the *Announcement of the Graduate School of Medical Sciences*. Graduate programs are offered in the fields of biochemistry, biological structure and cell biology, biology, biomathematics, biophysics, genetics, microbiology, neurobiology and behavior, pathology, pharmacology, and physiology. Students in this program work under the supervision of faculty members at the Medical College and the Sloan-Kettering Institute for Cancer Research. This intramural M.D.-Ph.D. program can be entered at any

time by matriculated Cornell medical students or by resident physicians on the house staffs of hospitals affiliated with the Medical College.

2. The second M.D.-Ph.D. program is coordinated between Cornell University Medical College and the adjacent Rockefeller University and is described fully in a special announcement of this program. Students in this program pursue their medical education at Cornell and their graduate education in the many areas of study available at Rockefeller University, under the direction of the Rockefeller faculty. Students completing this program receive an M.D. degree from Cornell University and a Ph.D. degree from Rockefeller University. Applicants to this program must be accepted by the Cornell-Rockefeller Committee in the spring of the year of joint matriculation. In addition to the AMCAS application form, applicants to this program must also file a special application form that may be obtained by writing to: Rockefeller University, York Avenue and East Sixty-sixth Street, New York, New York 10021.

In selecting between these two programs, an applicant should carefully survey the different areas of graduate study offered by the Cornell University Graduate School of Medical Sciences and Rockefeller University and then select the program most consistent with his or her research and career goals. Both coordinated programs are normally expected to require about six calendar years of study. Questions about these programs should be addressed to the Office of Admissions, Cornell University Medical College, 445 East Sixty-ninth Street, New York, New York 10021.

#### Summer Fellowship Program for Minority Students

A summer fellowship program for minority-group premedical students has the specific aims of increasing the number of minority-group students in medical schools and of increasing their awareness of the great variety in medical career opportunities. Premedical students who have completed their junior year spend ten weeks as summer fellows at the Medical Center.

Fellows work three days a week at a variety of research activities with sponsors who are faculty members from different departments. The students in this program are often involved jointly with medical students who hold similar fellowships. Two mornings a week are devoted to a specially designed course in cardiovascular physiology. The afternoons of these days are used for a series of discussions about health problems of various communities, and visits to a neighborhood health center program.

Information regarding applications for fellowships and all other aspects of minority-group admissions can be obtained by writing to James L. Curtis, M.D., Associate Dean, Cornell University Medical College. Application should be made early in the junior year, and not later than April 15.

## Advancement and Graduation

**Qualifications for admission, advancement, and graduation.** The evaluation of individuals for admission and advancement involves both objective



criteria and subjective judgments. In order to be considered for admission, subsequent advancement, and graduation, individuals must have satisfactorily completed all required undergraduate and Medical College course work; must demonstrate motivation, maturity, stability, sound judgment, a sense of responsibility, and good moral character; must evidence cognitive, motor, and organizational skills, sensory perception, ability to synthesize and apply knowledge, and possess such other attributes as the faculty deems to be essential to the making of a safe and effective physician.

**Dismissal.** Students are subject to dismissal for the following reasons: (1) failure to pass required course work or to remedy failures as provided in the *Guidelines for Promotion and Graduation*; (2) violation of the *Code of Professional Conduct*; (3) a determination by the faculty, after an opportunity to be heard, of failure to meet the standards of fitness for medicine set forth above.

**Graduation.** The award of the degree of Doctor of Medicine attests to the individual's successful completion of the curriculum and *prima facie* ability to practice the profession effectively and skillfully. The faculty does not believe that the degree can or should be awarded subject to any qualifications or to any modifications or restrictions whatsoever. The faculty reserves the right to withhold the granting of a degree to any person whose ability to practice medicine safely and effectively is impaired.

The curriculum of Cornell University Medical College is divided into four successive academic years, each year building on the subject material of preceding years. A student must successfully complete all of the course work of one academic year before being approved for promotion to the next year.

At the end of each academic term, a student's performance in all required and elective courses is evaluated and recorded. A student's final rating in a course is determined by the appropriate department after evaluation of the student's performance in all aspects of the course work, including the results of examinations.

At the end of each academic year, a student's final rating is based on the results of evaluations in all of the courses in the curriculum of that year. These final ratings are reviewed by the Committee on Promotion and Graduation and are submitted to the Faculty Councils for final approval. Guidelines for the Committee on Promotion and Graduation have been established and are distributed to all entering students.

Candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character. They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. Every candidate for a degree must pay, or satisfactorily arrange to pay, all accounts due the University at least ten days before commencement.

Graduation from Cornell University Medical College fulfills one of the requirements necessary to apply for a license as a physician in the various states. Most of our graduates, however, take further training. Stipends for this postgraduate experience vary from place to place, but range from approximately \$10,000 to \$14,000 per year.

A transcript of the Medical College record of a student or graduate will be mailed at the student's request to accredited hospitals and to educational or other recognized institutions as credentials in support of his or her application for a position or promotion. All transcripts are marked "confidential" and carry the instruction that they are not to be turned over to the candidate. The purpose of this ruling is to avoid possible loss and fraudulent use of an official document of the Medical College.

## Examinations for Medical Licensure

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States. Certified students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by a majority of the state and federal territory licensing agencies and by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal governmental agency. For information, write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

## Fees and Expenses

All fees for instruction and other charges are paid at the Accounting Office of the Medical College, Room D-07, 1300 York Avenue, New York, New York 10021. Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

Any individual who owes money to the University will not be allowed to register or reregister in the University, receive a transcript of his or her record, have his or her academic credits certified, be granted a leave of absence, or have a degree conferred.

**Application fee.** A nonrefundable charge of \$35 is made for reviewing each application.

**Acceptance deposit.** Each student admitted is given notice of acceptance and a limited time (usually two weeks) in which to decide if he or she will enroll in the entering class. The student's name is not placed on the class list until the \$100 acceptance deposit is paid. The deposit is credited toward the tuition charge and is not refundable if the student fails to enter.

## Tuition

Tuition for one academic year is \$6,700, starting July 1979. (The tuition may be revised during the academic year.) It is payable at the beginning of the academic year or in two equal parts, the first of which must be made within thirty days after classes begin, and the second in January 1980. The following are included in the tuition fee:

1. Matriculation fee.
2. Student hospital insurance. Students are covered for hospital and major medical expenses through a college self-insured program. The plan may be expanded to spouses and families of married students at additional cost. Full information is available at registration.
3. Personnel health service.
4. Graduation fee and rental fee for cap and gown for graduation exercises.

## Refund Policy

If a student terminates his or her medical college registration by official leave of absence or withdrawal, tuition will be charged for that trimester beginning with the first day of the trimester and extending to the effective date of the leave of absence or withdrawal as recorded in the Office of Student Affairs.

For each week or fraction of a week the charge will be: first week, 10 percent; second week, 20 percent; third week, 30 percent; fourth week, 40 percent; fifth week, 60 percent; sixth week, 80 percent; seventh week, 100 percent; except that no charge will be made if the effective date is within the first six days of the trimester.

## Books, Instruments, and Microscopes

The average cost of books, instruments, and microscope rental is approximately \$600 a year. Each student is required to have a microscope of an approved type. The instrument should have scanning (3-5X), low-power (10X) and medium-power (40X) dry objectives. It is important that the coarse adjustment of the scope permit a clearance of at least 30 mm between the 10X objective and the stage. The scope should also be equipped with a well-working oil immersion system. The oil immersion objective, substage condenser, and light source should produce sharp images of good resolution in a well-illuminated viewing field. Binocular microscopes are available for rental. Information will be furnished each entering student before registration.

## Financial Aid

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

## Scholarships

Scholarship income is derived from the several endowed and invested funds and other resources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance. Financial need is not a factor in the selection of students at Cornell University Medical College.

Awards to entering students are made on the same basis as to students already enrolled. An applicant who has been accepted for admission and has indicated the intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards, unless specifically indicated below, are made for one year only, and the financial situation is reviewed each year by the Committee on Financial Aid.

**Vivian B. Allen Scholarship Endowment.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to provide income to aid needy students of good scholastic standing who otherwise would not be able to complete their medical education.

**Becker Family Scholarship Fund.** The income from this endowed fund, established by a generous gift from the estate of Louis Becker, is to be used to provide scholarships for deserving students.

**The Lois and Max Beren Foundation** may award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the college and the foundation. The student shall be selected by the college, subject to the approval of the foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the foundation to assist a student who possesses great eagerness to pursue studies but who would find it impossible or impractical to do so without the financial support of the foundation.

**H. Meredith Berry Scholarship Fund.** The income from this endowment fund, established by gifts from Dr. Meredith Berry '41, is used to help a needy and deserving student.

**Siegfried and Josephine Bieber Scholarship Endowment.** The income from the endowment, given by the late Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

**The John V. Bohrer Scholarship Fund** was endowed by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from the income are awarded to students "who shall express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

**Lucien and Ethel Brownstone Merit Medical Scholarship.** Generous gifts to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment established by the gift is to be awarded as a four-year scholarship to one or two students. The donors hope to encourage the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine. The first award was made in 1968.

**Mary E. C. Cantle Scholarship Fund.** The income from this invested fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

**Lillian M. Charles Scholarship Endowment.** The income from this fund, which was established by a generous gift from the late Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

**Citibank Medical Scholarship.** This scholarship was established by Citibank to be awarded to a first-year student who is a resident of New York State and has demonstrated financial need.

**Coppermines Foundation Scholarship Endowment.** Endowed by a generous gift from the Coppermines Foundation, Inc., the income provides financial assistance for needy and worthy students.

**Jean Davidoff and Elizabeth Cohen Scholarship Fund.** This endowment was established through a gift by Dr. Harry S. Berkoff '23 in memory of his sisters. The income is available annually to a student, or students, in the third- and fourth-year classes who are in need of financial aid and who, by their scholarship and conduct, have proved worthy of this. Such students should express their willingness and intention to return to the fund the amounts received by them as and when their circumstances permit.

**Dean's Special Scholarship Fund.** This invested fund was established through the generosity of many contributors. The income is used to provide scholarships for worthy students who are especially in need of financial assistance.

**Kate and Henry Eichel Scholarship Fund.** This gift from the estate of Kate Eichel is an invested fund. It has been given in memory of Kate Eichel and her brother, Dr. Henry Eichel '07. The investment income will be used for scholarships for students in need of financial assistance.

**Dr. Harry Eno Scholarship Endowment.** Established in 1955 by the gift of the late Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

**The Jeremiah S. Ferguson Scholarship Fund** was established by the Board of Trustees of Cornell University in memory of Jeremiah S. Ferguson who,

throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The investment income is awarded annually by the Committee on Financial Aid to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid.

**Anthony Ferrara Memorial Scholarship Fund.**

The mother of Anthony Ferrara and his fellow students and friends established this fund. The investment income provides scholarship assistance to deserving students.

**Joseph P. Ferrigan Endowment.** The income from this endowed fund, established by an anonymous gift, is to be used to benefit a worthy and meritorious student in need of financial assistance.

**The Wallace D. Garbrandt Scholarship Endowment** was established by the late Mabel G. Gormley, and the income is to be awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

**The Judge and Mrs. Samuel Jordon Graham Memorial Scholarship Endowment** was established by a bequest from the estate of E. Norman P. Graham. The income provides scholarship assistance for deserving students of the Medical College.

**Connie Guion Scholarship.** Providing annual tuition for a student of the Medical College, this scholarship was established by Ambassador and Mrs. Vincent de Roulet to express their gratitude to the late Dr. Connie Guion '17.

**The Haddad Foundation Scholarship.** The R. G. Haddad Foundation has made available grants to medical students who are United States citizens of Syrian or Lebanese descent and who are in need of financial assistance. The grant is for one year and may be renewed upon application.

**Lawrence W. Hanlon Scholarship Fund.** This fund was established in memory of Dr. Lawrence W. Hanlon, who had given twenty-five years to the service of the Medical College. In the last fifteen of those years, he was associate dean and, in that role, did as much as any one person ever has to shape the lives and careers of the students. Contributions from his associates and friends make this fund possible.

**Dr. John A. Heim Scholarship Endowment.**

The income from this fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible.

**Irma T. Hirschl Scholarship.** This fund, supported by a trust under the will of Irma T. Hirschl, grants annual scholarships to students. The will makes

the following statement of the donor's wishes:

"All payments to medical schools selected by my individual trustees . . . shall be applied by such schools as student financial aid for medical education of deserving students who may be deemed worthy of such aid by the scholarship committee (or its equivalent) of each such school.

"All payments herein shall be designated as The Irma T. Hirsch Scholarship. I direct that the scholarship committee (or its equivalent), in designating the recipients of such financial aid, be guided by the following criteria: financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life. No discrimination shall be made against applicants for financial aid on the ground of sex, race, religion, or national origin. It is my desire, but I do not require, that a student, once selected for financial aid on the basis of the criteria set forth above, shall continue to receive financial aid throughout the years of such student's dedicated and successful study, provided the student continues, in the judgment of such scholarship committee (or its equivalent), to meet the criteria set forth above."

Several other medical schools in the city are also beneficiaries under the trust.

**Maier and Shantsya Hitzig Scholarship.** Through a generous gift, Dr. William M. Hitzig '29 established this endowed scholarship in memory of his father and mother. The income is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

**The Dr. Edward Hoenig Scholarship Fund** was endowed by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance to needy but worthy students.

**Samuel Hollander Prize Endowment.** The income from an endowed fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy student as a prize for scholarship by the Committee on Financial Aid.

**The Ruth Hollohan Scholarship Fund** was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The investment income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

**Elizabeth and Neill Houston Scholarship Endowment.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

**Charles Evans Hughes Memorial Foundation Scholarship Fund.** The foundation was established by Mr. Chauncey L. Waddell on the death of his wife, Catherine Hughes Waddell, in memory of her father, Chief Justice Hughes. This generous gift was made

to the Medical College to support the effort to meet the financial aid requirements of enrolled minority students.

**Professor Andrew Hunter Scholarship.** This fund was established by the Maurice H. Givens Trust in honor of the late Professor Andrew Hunter, who was professor of biochemistry at the Ithaca Division of Cornell Medical School, where Mr. Givens served as Professor Hunter's assistant from 1909 to 1914. The income from this endowment provides scholarships to needy and worthy students in the Medical College.

**Dr. Charles I. Hyde '10 and Eva Hyde Scholarship Endowment.** Established by the late Dr. Charles I. Hyde and Mrs. Eva Hyde in memory of their daughter, Anita Shirley Hyde, this endowment provides that income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

**The Dick Katzin M.D. Scholarship Fund** was established in 1966 by Dick Katzin '65. The annual gift will be used to give financial aid to needy students.

**Samuel Farrar Kelley M.D. Scholarship Fund.** Contributions for this invested fund are being given by Mrs. Lillian E. Kelley in memory of her husband. Support from the income from this fund is available to students in good standing who need financial assistance.

**The 1936 John and Katherine Mayer Scholarship Fund.** The investment income is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but may be awarded for a second or third year provided the qualifications of the candidate merit it.

**The 1939 John and Katherine Mayer Scholarship Endowment.** The income is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but may be awarded for a second or third year provided the qualifications of the candidate merit it.

**Charles M. McLane Memorial Scholarship.** This generous gift was established by the Merlin Foundation. The investment income is to be used to provide a scholarship for a needy student from the third- or fourth-year class whose record reflects dedication and personal achievement of a high order.

**Medical College Dormitory Fund No. 2.** This invested fund, established by gifts made in the Greater Cornell Campaign, provides income for rental scholarships to be awarded to students residing in the Medical College dormitory.

**Medical College Memorial Scholarship Consolidated.** This endowment fund is supported by various gifts given in memory of individuals for scholarship purposes. The income is used for scholar-

ships to worthy students who are in need of financial assistance.

**Margaret, Henry, Rosalie, and Henry E. B. Meyer Educational Fund.** The income from this very generous trust fund is to be used to pay a portion of the cost of tuition of one or more students, selected each year from the entering class. This trust fund was established by a gift from the estate of Henry E. B. Meyer '07, in memory of his parents, his wife, his sisters, and himself.

**Li Ming Scholarship Fund.** The income from this endowment fund, established by a bequest from the estate of Li Ming, is used for scholarship purposes and, in accordance with the donor's stipulation, preference is given to students of Chinese birth or descent or nationality or, if there are no such qualified applicants, then to other qualified students.

**Dr. George A. and Nora W. Newton Scholarship Endowment.** The income from this fund, which was established by a bequest from the estate of Nora W. Newton, provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Committee on Financial Aid on the basis of high scholarship and character.

**New York Community Trust Scholarship.** These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

**Gustave J. Noback Memorial Fund for Advanced Study and Teaching in the Field of Anatomy.** In 1963 a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the professor in charge.

**The Maurice and Cecelia Nordlicht Scholarship Fund.** Established by Dr. Stephen Nordlicht, the income is available annually as a scholarship, with preference given to students who have done meritorious work in psychiatry. If, in any year, there is no student in need of such assistance, the income may be utilized for research in the Department of Psychiatry.

**Evelyn Buckalew Ochester and Charles W. Ochester Memorial Scholarship Fund.** This endowment fund was created by Alfred J. and LeMoine R. Buckalew in memory of their sister, Evelyn Buckalew Ochester, and her husband, Charles W. Ochester. Income from the fund is used to provide financial assistance or incentive recognition awards to worthy students who are in need.

**Dr. E. Cooper Person Memorial Scholarship Fund.** Friends of the late Dr. Person established this invested scholarship fund in his memory. Scholar-

ship aid for deserving students is provided from the income.

**John Metcalf Polk Scholarship Endowment.** A gift under the will of William Mecklenburg Polk, the first dean of the Medical College, established an endowed fund. The income is to be used to provide scholarships for students of the Medical College.

**Thomas C. Rennie Scholarship Fund.** Friends of the late Dr. Rennie, professor of social psychiatry, have set up an endowed fund; a portion of the income is available to students interested in carrying out research work in social psychiatry.

**Jessie Ridley Scholarship Fund.** This fund was established by the Jessie Ridley Foundation, Inc., and will provide scholarships for deserving young men and women to assist them in attending institutions in this country. Financial need and physical handicaps of the individual shall be considered in awarding these scholarships.

**Anna E. Ray Robinson Education Fund.** The income from this endowed fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for students. A preference is to be given to descendants of Anna E. Ray Robinson and of her husband's brothers and sisters.

**Edgar J. Rosenberg Medical Scholarship Fund.** The income from this fund, which was established by a bequest to The Society of The New York Hospital, is available to assist a needy and worthy student.

**The Louis and Rachel Rudin Scholarship Fund.** This annual gift from the Louis and Rachel Rudin Foundation, Inc., shall be used for a scholarship in recognition of Dr. Lawrence Sonkin and shall be available to students without regard to age, sex, creed, or race, who demonstrate financial need, who show merit and great promise as students, and who are citizens of the United States. The scholarship shall be for the payment of tuition and support of students who otherwise would not be able to pursue careers as physicians.

**The Dr. Jacques Saphier Scholarship Endowment** was established by Dr. Saphier's father, the late Conrad J. Saphier, in memory of Dr. Jacques Conrad Saphier (lieutenant, j.g., U.S.N.R.), class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The endowment income is awarded annually to a meritorious student of the Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

**Anne and David C. Schilling Scholarship Fund.** The income from this endowment fund, established by a bequest from the estate of David C. Schilling, is used to provide first-year scholarships for needy students of high scholarship and character in the Medical College.

**The Carl J. Schmidlapp Memorial Scholarship Fund** was endowed by Dr. Jean Schmidlapp Humes



'49 in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded annually to a deserving student in any class of the Medical College, selected on the basis of need and ability.

**Joseph M. Seider Scholarship Fund.** This fund, financed by an annual gift from Mr. Seider, provides scholarships for worthy students who are in need of financial assistance.

**The Thorne Shaw Endowment Scholarship Fund** provides the income to support three scholarships. A gift from the estate of Julia Shaw established the endowment. One scholarship is available to students after at least two years of study in the Medical College and two scholarships are available to students after at least one year of study in the Medical College.

**The Robert E. Speno Endowment Scholarship Fund** was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.

**Charles Rupert Stockard Scholarship.** An invested fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-39. The income from this fund is to be awarded to either one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that department. The scholarships are to be awarded by the Executive Faculty Council upon nomination by the head of the Department of Anatomy.

**Nancy G. Stone Memorial Scholarship Fund.** This endowed fund was established by a bequest from the estate of Nancy G. Stone, widow of Dr. Neil C. Stone '25. The income from this fund will be used to provide scholarships to worthy students in need of financial assistance.

**The Walter C. Teagle Scholarship Fund,** an endowment fund established in 1963 by a very generous gift from the Teagle Foundation, Inc., is a permanent memorial in honor of Mr. Teagle, with the recipients of the income from the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is further the desire of the Directors of the Foundation that each student given an award be urged—but in no way required in any legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of students may have available further funds to help defray the rising costs of medical education."

**Training in Psychiatry Fund.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the

faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

**Dr. Samuel M. Weinreb Medical Scholarship Fund.** This endowed fund was established by the family, friends, and former patients of Dr. Samuel M. Weinreb '23 in his memory. The income from this fund is available to a needy fourth-year student who intends to practice in a medically underserved area.

**Weld Fund Scholarship.** Established by David and Mary Blake Weld, the income from this endowment fund provides scholarship assistance for needy students who are in good academic standing.

**Phillip G. Woodward Scholarship Fund.** The income from this fund, which was established by a bequest to The Society of The New York Hospital from Phillip G. Woodward, is available to be used for Phillip G. Woodward Scholarships, to be awarded to third- or fourth-year students of the Medical College who have demonstrated interest, initiative, and ability in the field of psychiatry, neurology, and/or behavioral biology.

**Mary Louise Wuester Scholarship Endowment.** The income from this endowment fund, which was established in memory of his mother by Dr. William O. Wuester '33, is awarded annually to a regularly matriculated student of good scholarship who is in need of financial aid.

**New York State Scholarships for State Residents.** Applications should be filed by the last year of preprofessional study.

**Regents Physician Shortage Scholarships** applications are due in May. Scholarship recipients must serve in shortage areas of the state. For applications and information write to the University of the State of New York, State Education Department, Bureau of Higher and Professional Educational Testing, Albany, New York 12234.

**Tuition Assistance Program (TAP)** is available to New York State residents, depending on family income. Applications are available from the Higher Education Services Corporation, Tower Building, Empire State Plaza, Albany, New York 12255.

## Scholarships for Woman Students

**Frances N. and John A. Cashman Scholarship Fund.** This endowed fund was established by a generous gift from the Trust of Frances Nevins Cashman. The income from this fund shall provide a scholarship to a woman student who, in the opinion of the faculty, is deserving of such assistance.

**Mary F. Hall Scholarship Endowment.** The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in the Medical College who needs its aid, who is a bona fide resident of the state of New York, and was such prior to admission to the college.

**Mary Putnam Jacobi-Anna Forrest Rowe Scholarship.** A bequest from William Vincent Rowe endowed this fund. The income provides financial assistance for woman students.

**The Elise Strang L'Esperance Scholarship Endowment,** established by a bequest from Dr. L'Esperance, provides income for financial assistance for woman students at the Medical College.

**The Elizabeth C. Lowry Scholarship Fund** was endowed by Dr. Lowry, a member of the class of 1935, in memory of her late husband, Dr. Thomas Lowry, who was also a member of that class. The income is to be used to provide financial assistance to woman students in the Medical College. If, in any year, there is no woman student in need of such assistance, the income available may be awarded to a woman candidate for a Ph.D. in the Graduate School of Medical Sciences.

**Dr. Leona E. Todd Scholarship Endowment.** A gift from the estate of Alzina T. Elliott established this endowment fund, the income to be used for scholarships for woman students in the Medical College.

**Marie and John Zimmermann Fund.** The income from this endowed fund, established by a gift from the late Marie Zimmermann and the Marie and John Zimmermann Fund, Inc., is used to aid needy and worthy woman students. In addition to the endowment income, a generous annual gift is being given by the Zimmermann Fund, Inc., for supplemental scholarships to be made to a few needy and worthy woman students.

## Loan Funds

**The 1923 Loan Endowment.** The income from this endowment fund is available as a loan to a student needing financial assistance.

**Alumni Association Loan Fund.** The Medical College makes loans available to students from a portion of the income from an endowment fund that is provided through the Alumni Association. Students in the upper classes will be given preference.

**Student Loan Funds.** Revolving funds contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, the Student Bookstore, and the Bristol-Myers Fund, are available to students in all classes who are in need of assistance. Every effort is made, within the limitations of the financial structure of the institution, to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits.

**Lawrence W. Hanlon Student Loan Fund.** This fund was established by the Medical College in memory of Dr. Lawrence W. Hanlon, associate dean of students, who died in 1970. Dr. Hanlon devoted his life to the welfare of the students at the Medical College, and this fund is designed to help continue his good work.

**Joseph C. Hinsey Loan Fund.** Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

**B. H. Homan Jr. Revolving Loan Fund.** This fund was established by a bequest from Benjamin H. Homan, Jr., and provides low-interest loans to worthy students with financial need.

**Federal loan programs.** The Medical College participates in the Federal Health Professions and National Direct Student Loan Programs. These loans, based on financial need, are administered through the college and are available only to students eligible for financial aid.

**State guaranteed loans.** Students may apply for federally guaranteed student loans from their banks in any state. Students seeking New York State guaranteed loans should apply to the New York Higher Education Services Corporation, Student Financial Aid Section, Tower Building, Empire State Plaza, Albany, New York 12255.

There are other student loan funds available from organizations with which Cornell University has a working agreement. For further details, please inquire in the Office of Student Affairs, Room C-118.

## Prizes

**Mary Aldrich Fund.** In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Medical College. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented, in writing, of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are to be submitted in octuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Office for Student Affairs, Room C-118, not later than the first Monday in April. In 1979 the prize was awarded to Marcus Hsiu-Hong Loo.

**Beekman Downtown Hospital Emergency Medicine Award** has been made possible by a gift from Beekman Downtown Hospital. The prize consists of a cash award and an appropriately inscribed scroll. It will be presented to the fourth-year medical student who has completed his or her rotation through the Emergency Department of Beekman Downtown Hospital, and who has demonstrated outstanding character, compassionate concern for the welfare of the patient, academic excellence, and clinical proficiency during the Emergency Medicine elective at Beekman Downtown Hospital. For 1979 this award was given to Harley Aaron Rotbart.

**The Clarence C. Coryell Prize in Medicine** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize, financed by the income, is to be awarded annually to the student having the highest average in medicine up to the end of the junior year. In 1979 this prize was awarded to Thomas Henry Lee, Jr.

**The Clarence C. Coryell Prize in Surgery** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize, financed by the income, is to be awarded annually to the student who attains the highest marks in surgery during the fourth year. In 1979 this prize was awarded to David John Sugarbaker.

**Dean's Research Prize.** Cash awards are offered to matriculated students of any class for excellence in research. For 1979 prizes were awarded to Michael Jonathan Robbins and David Dean Speck.

**The Oskar Diethelm Prize for Excellence in Psychiatry** was established in honor of Oskar Diethelm, who was Chairman of the Department of Psychiatry of Cornell University Medical College from 1936 to 1962. It is awarded annually to the medical student who has demonstrated exceptional interest and ability in psychiatry through research, clinical activities, or scholarly work. In 1979 this prize was awarded to Thomas Henry Lee, Jr.

**The David Drusin Memorial Prize** was established by his family and friends to recognize both scholastic achievement in medicine and those intangible human qualities associated with a good physician. The prize is awarded to a student who has completed the third clinical year. Candidates for this prize are to be recommended by the Chairman of the Department of Medicine to the Dean of the Medical College at the conclusion of the third year. This prize will be awarded for the first time in September 1979.

**The Franklyn Ellenbogen Prize in Hematology-Oncology** was established by a gift from the Franklyn Ellenbogen, Jr., Memorial Foundation in honor of Ralph L. Nachman, M.D., Professor of Medicine and Chief of the Division of Hematology-Oncology. The income from this endowed fund will be used to finance an annual Hematology-Oncology Prize, to be given to a fourth-year graduating student who has demonstrated significant evidence of achievement in this area. For 1979 the prize was awarded to Frederick Peter Ognibene.

**Sarah O'Laughlin Foley Prize in Clinical Medicine.** Dr. William T. Foley, Clinical Associate Professor of Medicine and a member of the class of 1937, established this annual prize in memory of his mother. The recipient, a member of the graduating class, is selected for excellence in clinical medicine by the chairperson of the Department of Medicine. For 1979 the prize was awarded to Thomas Henry Lee, Jr.

**Louis Gibofsky Memorial Prize.** This prize is a cash award offered to the medical student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is

in memory of Louis Gibofsky. This prize was not awarded in 1979.

**The Herman Goldman Emergency Medicine Award** has been sponsored by the Beekman Downtown Hospital and the Herman Goldman Foundation. It consists of a cash gift and an appropriately inscribed scroll. It will be presented to the fourth-year medical student who has completed his or her rotation through the Herman Goldman Emergency Department of Beekman Downtown Hospital and who has demonstrated academic excellence, clinical proficiency, outstanding character, and compassionate concern for the welfare of the patient. In 1979 this award was presented to Anthony Lee Suchman.

**Good Physician Award.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "the good physician." For 1979 the award was presented to Dale Steven Adler.

**Charles L. Horn Prize Fund.** The income from this fund will be awarded each year to a member of the graduating class who has demonstrated outstanding qualities of leadership and service to the medical community. For 1979 the prize was awarded to Frederick Peter Ognibene.

**The Herman L. Jacobius Prize Endowment in Pathology** was established in 1945 by a gift from Dr. Lawrence Jacobius and his friends in memory of his son, Dr. Herman L. Jacobius '39, who was killed in action in the Netherlands on September 28, 1944. The income is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction, the award will be withheld. In 1979 the prize was awarded to W. Thomas Gutowski and Gregory Jay Naus.

**The Dr. Harold Lampert Biomedical Research Prize.** A cash award is offered to the medical student who submits the best thesis reporting original biomedical research while a candidate solely for an M.D. degree. The award includes a framed certificate and is in memory of Dr. Harold Lampert, Distinguished Service Professor of Physiology and Biophysics at Mount Sinai School of Medicine. In 1979 this prize was awarded to Steven Edward Schutzer.

**The George S. Meister Prize in Pediatrics** has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The prize consists of income derived annually from an invested fund contributed by members of his family, his close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics. In 1979 this prize was awarded to Clara Emilia Escuder.



**Alfred Moritz Michaelis Prize Endowment for Efficiency in General Medicine.** The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from the Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at the Medical College. In 1979 this prize was awarded to Dale Steven Adler.

**Gustave J. Noback Memorial Fund in Anatomy.** Established in 1972 by Miss Berthe Manent, a graduate of The New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback will be remembered for his great kindness and generosity to all his students, and also for his work in research, and sculpture. The income from this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This prize was not awarded in 1979.

**Arthur Palmer Prizes for Efficiency in Otorhinolaryngology.** These prizes are made available from the income of the Arthur Palmer Fund, which was provided by the members of the Division of Otorhinolaryngology in honor of Dr. Palmer. The prizes are given to the students in the graduating class who have the best records in this capacity. For 1979 these prizes were awarded to David Mason Hallbert and Tony Wai Yee Tow.

**The Robert F. Pitts Prize** has been established by a generous gift of the late Robert F. Pitts, former chairman of the Department of Physiology at Cornell University Medical College and past president of the American Physiological Society. Two prizes, a \$2,500 first prize and a \$1,500 second prize, are offered for research conducted by medical students in the Department of Physiology at Cornell University Medical College. The selection shall be made on the basis of manuscripts submitted to an Awards Committee. This committee consists of the chairpersons of the Departments of Physiology at Harvard Medical School and Yale University School of Medicine, the dean and the chairperson of the Committee of Research Prizes at Cornell University Medical College. The chairperson of the Department of Physiology at Cornell shall act as the chairperson of this committee. If the papers submitted are not considered worthy of special commendation the prizes will be withheld.

**John Metcalf Polk Prizes for General Efficiency.** These prizes, financed by the income from an endowed fund, are given in commemoration of John Metcalf Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years of work. Only those students who have taken the full course of study at the Medical College are eligible. In 1979 these prizes were awarded to Dale Steven Adler, Thomas Henry Lee, Jr., and Patricia Marie Romano.

**Gustav Seeligmann Prizes Endowment for Efficiency in Obstetrics.** Two prizes, financed by the income from an endowment established by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics. In 1979 these prizes were awarded to Sherri Lynn Fine and Harvey Guttman.

**Sondra Lee Shaw Memorial Fund.** The income from an endowment fund established by Mrs. Joan S. Friedman in memory of her sister, Sondra Lee Shaw, supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the student who has produced an outstanding research paper in the field of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research. The prize was not awarded in 1979.

**Mitchell Spivak Memorial Prize in Pediatrics.** Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak '64. The prize, financed by the endowment income, is awarded annually to the member of the graduating class who has made the best record in pediatrics. In 1979 this prize was awarded to Mychelle Yvette Farmer.

**T. Campbell Thompson Prize for Excellence in Orthopedic Surgery.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery established this endowed fund. The income is to be awarded yearly to that member of the graduating class who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery. In 1979 this prize was awarded to Brian Saltzman and Thomas Warren Snickenberger.

**The William C. Thro Memorial Prize Endowment** was established in memory of William C. Thro '01, whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject at his alma mater continuously from 1910 to 1938. The income from the endowed prize is awarded to the student who attains the best record in the pathophysiology course. The candidate for the prize is recommended by the professor of pathophysiology. This prize was not awarded in 1979.

**Upjohn Achievement Award.** This annual award to a member of the graduating class is given in recognition of outstanding achievement in a basic science. Consisting of a cash award and a plaque, the award is supported by the Upjohn Company. In 1979 the prize was awarded to B. Jeffrey Wallis.

**Weiss Prize for Excellence in Clinical Medicine.** The prize was established by Mr. and Mrs. Roger Weiss in 1979 as an expression of the high esteem in which they hold their physician, Dr. Harvey Klein. The cash award and a framed certificate is offered to a member of the graduating class who, in the opinion

of a committee chaired by Dr. Klein and consisting of the chairman of the Department of Medicine, the chief resident in Medicine and the assistant chief residents in medicine, best exemplifies the qualities necessary for the attainment of outstanding bedside clinical competence in the field of internal medicine. The prize was awarded to Patricia Marie Romano in 1979.

**The Anthony Seth Werner, M.D., Memorial Prize** was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The prize is awarded annually to a member of the graduating class for excellence in the study of infectious diseases. In 1979 this prize was awarded to Frank Oliver Richards, Jr.

**The Harold G. Wolff Research Prize** is presented in memory of the late, famed chief of neurology at The New York Hospital-Cornell Medical Center. The prize consists of a cash award and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. In 1979 this prize was awarded to Barry Scott Pinchoff.

## Named Professorships

The following are the named professorships at Cornell University Medical College.

**The Winifred Masterson Burke Professorship in Rehabilitation Medicine** was established in 1971 with a gift from the Winifred Masterson Burke Relief Foundation. The first and present occupant of the chair is Dr. Fletcher H. McDowell.

**The Winifred Masterson Burke Professorship of Neurology** was established in 1978. The first and present occupant of the chair is Dr. John P. Blass.

**The James J. Colt Professorship of Urology in Surgery** was established in 1970 through a gift from the James J. Colt Foundation. The present occupant of this chair is Dr. E. Darracott Vaughan, who is surgeon-in-charge of the James Buchanan Brody Urological Foundation at The New York Hospital.

**The Livingston Farrand Professorship of Public Health and Preventive Medicine**, established in 1944 upon receipt of a gift from the Milbank Memorial Fund and the Rockefeller Foundation Fund, is named for Livingston Farrand, who was the president of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The first occupant of the chair was Dr. Walsh McDermott. The current occupant is Dr. George Reader, Chairman of the Department of Public Health.

**The Given Foundation Professorship of Obstetrics and Gynecology** was established in 1963 with funds from Irene Heinz Given and the John LaPorte Given Foundation. The foundation's gift was designed

to provide endowed support for the chairman of the Department of Obstetrics and Gynecology. The present occupant of the chair is Dr. William J. Ledger.

**The Stanton Griffis Distinguished Medical Professorship** was established by the Board of Trustees of Cornell University in honor of the late Mr. Griffis, Cornell University '10. Mr. Griffis was a distinguished member of the Board of Trustees for twenty-one years, a trustee emeritus for twenty-four years, and a presidential councillor for eight years. The first Stanton Griffis Distinguished Medical Professor is Dr. Alexander G. Bearn, former Chairman of the Department of Medicine.

**The Roland Harriman Professorship of Cardiovascular Medicine** was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first occupant of the chair was Dr. Thomas Killip III, formerly head of the Division of Cardiology in the Department of Medicine.

**The Barklie McKee Henry Professorship of Psychiatry**, established in 1968, honors the memory of the late Mr. Henry, who was president of The Society of The New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry into the eminent treatment, research, and teaching unit it is today. Dr. William T. Lhamon, who was chairman of the department and Professor of Psychiatry since his appointment at Cornell in 1962, was the first occupant of the chair. The present occupant of the chair is Dr. Robert Michels, Chairman of the Department of Psychiatry.

**The Joseph C. Hinsey Professorship of Anatomy**, established in 1966, upon receipt of a gift from Nicholas Noyes, is the only professorship named for a living member of the faculty. A former dean of Cornell University Medical College, Dr. Hinsey was director of the center until his retirement in 1966. He is an emeritus professor in the Department of Anatomy of the Medical College. The first and present occupant of this chair is Dr. Roy C. Swan, a 1947 graduate of the Medical College, who has been Professor of Anatomy and chairman of the department since 1959.

**The Johnson & Johnson Distinguished Professorship in Surgery** was established in 1972 through a grant from the Johnson & Johnson Associated Industries Fund. The present occupant of the chair is Dr. P. W. Curreri.

**The Hilda Altschul Master Professorship** was established in 1971 in memory of the late Mrs. Master, who was the wife of Dr. Arthur M. Master '21. Endowment of the chair is made possible by gifts from Dr. Master, Mr. Arthur M. Master, Jr.; Mrs. Herbert H. Lehman, sister of Mrs. Master; and the Overbrook Foundation, whose president is Mr. Frank Altschul, Mrs. Master's brother. The present occupant is Dr. John H. Laragh.

**The John Milton McLean Professorship of Ophthalmology** was established in 1972 in memory

of the late Dr. McLean who headed the Department of Ophthalmology for twenty-seven years. A graduate of the Medical College in 1934, his reputation as an eye surgeon, investigator, and teacher was worldwide. The memorial was initiated by Dr. McLean's former residents, the "eye alumni," whose inspiration and generosity brought together his former patients, associates, and friends, and their combined gifts endowed the chair. The present occupant of the chair is Dr. D. Jackson Coleman, Chairman of the Department of Ophthalmology.

**The Stavros S. Niarchos Professorship in Pediatric Cardiology** was established in 1979 by a gift from Mr. Stavros S. Niarchos. The present occupant is Dr. Mary Allen Engle.

**The Revlon Pharmaceutical Professorship of Pharmacology** was established in 1979 by a gift from Revlon, Inc. The present occupant is Dr. Walter F. Riker, Jr.

**The Israel Rogosin Professorship of Biochemistry** was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. Dr. Vincent du Vigneaud, who received the Nobel Prize in chemistry in 1955, was Cornell's first Israel Rogosin Professor. The chair has been held since Dr. du Vigneaud's retirement in 1967 by Dr. Alton Meister, current Chairman of the Department of Biochemistry, whose research centers on the chemistry and intermediary metabolism of amino acids.

**The Sterling Drug Visiting Professorships** were established in 1979 by a gift from the Sterling Drug Company in honor of Dr. Walter F. Riker, Jr., Chairman of the Department of Pharmacology. The professorships are designed to promote interchange of knowledge in the field of pharmacology. Each visiting professor will spend about a week at the college, delivering a major lecture and participating in seminars.

**The Lewis Atterbury Stimson Professorship of Surgery** was established in 1935 by an anonymous gift presented to the Medical College in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. The first occupant of this chair was Dr. Frank Glenn. The present occupant of this chair is Dr. G. Thomas Shires, Chairman of the Department of Surgery.

**The William D. Stubenbord Visiting Professorships** were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder, Sr., and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31, for them and members of their families." The departments of the college will, in rotation, be host to visiting scholars. Each visiting professor will reside at the college for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

**The Anne Parrish Titzell Professorship in Neurology** was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum, current Chairman of the Department of Neurology.

**The Maxwell M. Upson Professorship of Physiology and Biophysics**, established in 1970, honors the memory of Mr. Upson who had been a member of the Cornell University Board of Trustees for thirty-five years. The first occupant of this chair was the late Dr. Robert F. Pitts, who was Chairman of the Department of Physiology and Biophysics from 1950 through 1972. The current occupant of the chair is Dr. Erich E. Windhager, who is the Chairman of the Department of Physiology and Biophysics.

**The Harold and Percy Uris Professorship in Reproductive Biology** was established in 1976 with an endowment from the Uris Brothers Foundation. The first occupant of this chair is Dr. Fritz Fuchs.

**The Harold and Percy Uris Professorship of Pediatric Endocrinology and Metabolism** was established with a grant from the Uris Brothers Foundation. The first occupant of this chair is Dr. Maria I. New, who is the head of the Division of Pediatric Endocrinology and director of the clinical research center's pediatric unit.

**The Bruce Webster Professorship of Internal Medicine** was established with a bequest from the estate of Dr. Bruce Webster, and gifts from Mr. Roy E. Larsen and Dr. Webster's sister, Mrs. Flora Shefrin. This chair has not yet been filled.

**The Irving Sherwood Wright Professorship of Geriatrics**, the first endowed chair in geriatrics in the United States, was established in 1978 by a gift from the E. Roland and Gladys Harriman Foundation in honor of Dr. Wright. The first occupant of the chair is Dr. Marc E. Weksler, director of the Division of Geriatrics and Gerontology.

In addition to the professorships described above, a chair has been endowed by Mr. Israel Rogosin, but has not yet been named.

## Form of Bequests

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center." Gifts or bequests should be made to the College, to the hospital, or to the center.

If for the college, the language may be: "I give and bequeath to Cornell University the sum of \$..... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the college, such use may be specified.

If for the hospital, the language may be: "I give and

## 28 Residence Halls

bequeath to The Society of The New York Hospital, the sum of \$....."

If for the center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Fund, Inc., the sum of \$....."

## Honorary Societies

### Alpha Omega Alpha

Alpha Omega Alpha is a medical college honor society in which membership is based upon high scholastic achievement in the first three years of the Medical College curriculum. It was organized at the College of Medicine of the University of Illinois, Chicago, on August 25, 1902. A.O.A. is the only order of its kind on this continent.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual visiting professorship and an annual lecture.

Members elected from the graduating class of 1979 are: Dale S. Adler, D. Barry Boyd, William J. Burtis, Catherine A. Egli, Mychelle Y. Farmer, Harvey Guttman, Joseph A. Kovacs, Thomas H. Lee, Jr., Brent W. Miedema, Frederick P. Ognibene, Melissa A. Paterno, Patricia M. Romano, Anthony L. Suchman, David J. Sugarbaker, Tony W. Y. Tow, Paul B. Watkins, Steven W. Werns.

### Sigma Xi

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proven ability to carry on original research and on nomination by active members of the Cornell chapter.

## Alumni Association

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$25 a year. The activities of the association include a biennial reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The association maintains an office in Room C-103. An annual appeal for unrestricted funds for the Medical College is made to the members of the association.

### Officers

Thomas J. Fahey, Jr., '59, President  
Kathryn H. Ehlers '57, Vice President  
William T. Stubenbord '62, Secretary  
George R. Holswade D '43, Treasurer

William A. Barnes '37, chairman, Medical College Fund

C. Richard Minick '60, editor, *Alumni Quarterly*

## Directors

Henriette E. Abel '59  
Robert R. Abel '56  
George N. Cornell '50  
Lewis M. Drusin '64  
Robert S. Grayson '53  
Frederick Martens, Jr., '57  
Denis R. Miller '59  
Arthur W. Seligmann, Jr., '37

## Managing Director

Joan Steinbach

## Personnel Health Service

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination given by a member of the Health Service staff. In addition, each student must have a chest X ray, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for X rays, laboratory tests, or similar procedures when they are needed. It is strongly recommended that student dependents be covered by medical insurance. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but cooperation between such physicians and the Health Service is expected. Spouses and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

## Residence Halls

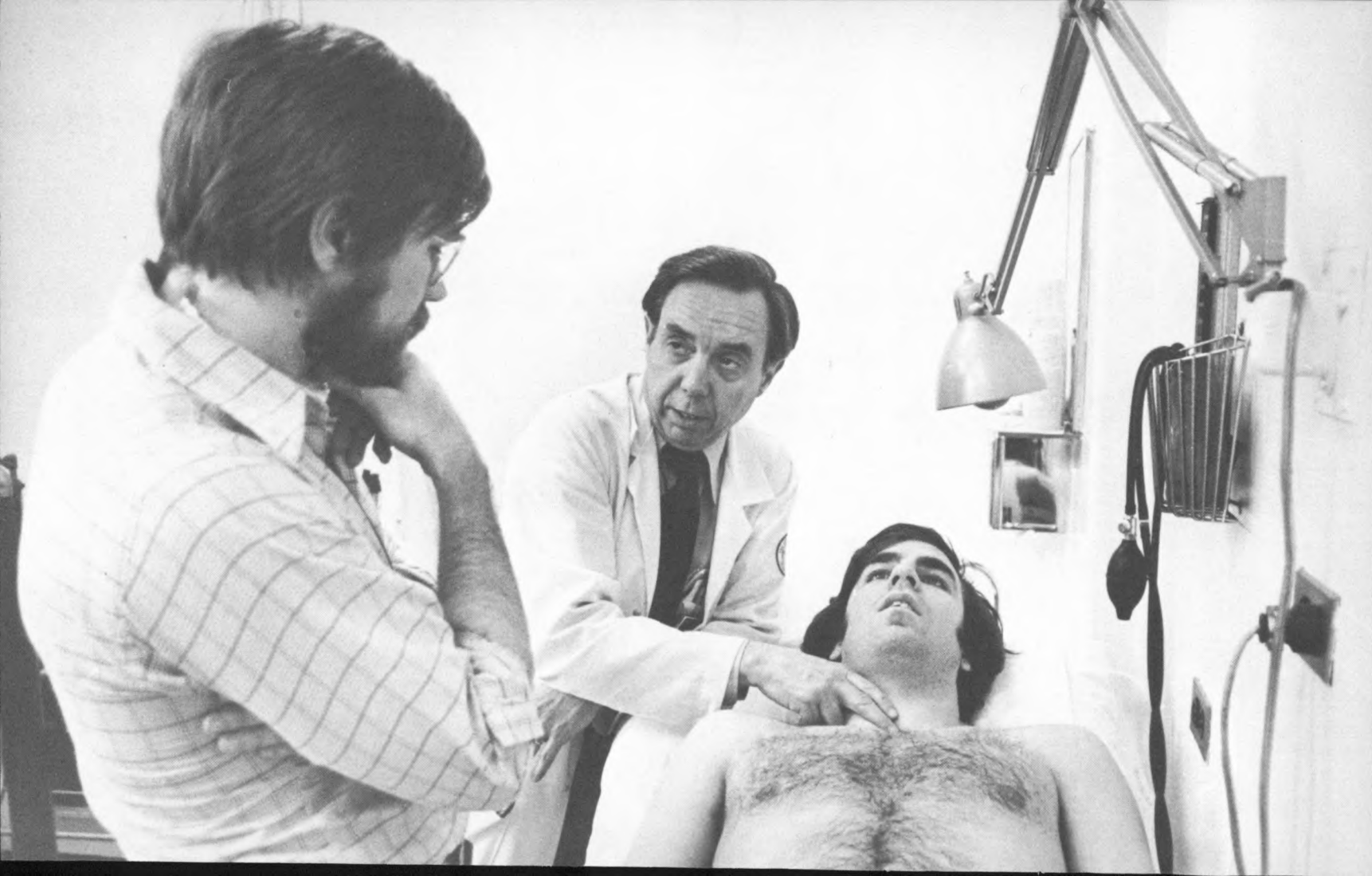
F. W. Olin Hall, a student residence completed in 1954, is at 445 East Sixty-ninth Street, directly across from the Medical College entrance on York Avenue. Olin Hall is a ten-story fireproof building containing a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt, Jr., Book Collection, as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study but, since two rooms share a connecting bath, they may be used as a suite for two students, if desired. The rooms are completely furnished. Single, first-year students usually live in this building.

Student rental for an academic year is \$1,200; for a full year (twelve months), \$1,440; and for periods of less than an academic year, \$120 per month. (These

prices are subject to change.) Several cafeterias are available in the main college and hospital buildings.

Apartments are available in Livingston Farrand Apartments for married students and upperclassmen.

Jacob S. Lasdon House, an apartment residence at 420 East Seventieth Street, is the newest student residence and was opened for occupancy in September 1974. This building, which was made possible by a gift from the estate of the late Mr. Lasdon, contains studio and one- and two-bedroom apartments. The rents for the various units in Lasdon House range from \$269 per month to \$454 per month. Single, first-year students cannot ordinarily be accommodated in this building.



## Cornell University

# Departments of Instruction

## Anatomy

### Professors of Anatomy

D. C. Brooks, acting chairman; J. M. Bedford, W. D. Hagamen, J. L. Sirlin, R. C. Swan, Joseph C. Hinsey  
Professor of Anatomy

### Clinical Professor of Anatomy

A. E. Inglis

### Associate Professors of Anatomy

F. G. Girgis, T. H. Meikle, Jr., T. C. Rodman, J. C. Weber

### Clinical Associate Professor of Anatomy

G. Stassa

### Adjunct Associate Professors of Anatomy

G. Doohar, M. D. Hamburg, M. Spiegelman

### Assistant Professors of Anatomy

R. Bachvarova, J. Hefton, B. B. Kaplan, M. Risley, J. M. S. Winterkorn

### Visiting Assistant Professors of Anatomy

J. J. Rasweiler IV, D. Soifer

### Instructor in Anatomy

G. M. Hucko (computer science)

### Clinical Instructors in Anatomy

G. Imber, R. G. Schwager

### Adjunct Instructors in Anatomy

R. McMillan, M. Panio, P. Pellicci

### Research Associates in Anatomy

S. Abreu, V. DeLeon

### Visiting Research Associate in Anatomy

S. B. Murphy

### Postdoctoral Associates in Anatomy

F. H. Pruslin, M. Romani

### Senior Lecturer in Anatomy

D. Gomez

### Teaching Assistants in Anatomy

S. Bernstein, J. Choy, M. Costello, D. J. Falcone, J. M. Rifkin

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is: What are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations? This is the substance, and this is the unique aspect of biological systems that constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with first-hand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. However powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into two courses for practical reasons. Gross Anatomy is



most effectively studied by regions; microscopic and developmental anatomy, by structural and functional systems. In the third trimester the brain and spinal cord are studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors in each course. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

### Required Courses

#### First Year

**Microscopic Anatomy** The structure of cells, their organization into tissues and organs, and basic concepts of how structure subserves function are considered. Concepts of differentiation and gene expression, which provide a basis for the understanding of the properties of cells and tissues, are presented. A comprehensive and systematic study of structure from the ultrastructural to the macroscopic level is pursued in the laboratory with emphasis on individual study of histological sections with the light microscope.

**Gross Anatomy** Regional anatomy is studied principally through dissection of the human body. Supplementing this are prosections by instructors, tutorial group discussions, and radiographic demonstrations.

**Neuroscience** The gross and microscopic structure of the brain and spinal cord is taught in an interdepartmental course in neuroscience in cooperation with the Departments of Neurology and Physiology. Lectures correlate the structure, function, and clinical significance of the principal concepts of the nervous system. Opportunity is provided in laboratory for gross dissection of the preserved human brain and for the study of the serial histological sections of the human brain in three different planes.

### Elective Options

**Radiographic Anatomy** First trimester: eleven weeks. Unlimited enrollment. G. Stassa.

A weekly conference demonstrating, with modern radiographic methods, regional and systemic structural and functional relations and their clinical application.

**Graduate Genetics Seminar Course** First and second semesters: thirty weeks. Unlimited enrollment. Prerequisite: at least one course in formal genetics. D. Bennett and Z. Harsanyi. Fall and spring semester topics to be announced.

**Clinical Anatomy of the Extremities and Back** Second trimester: eleven weeks. Unlimited enrollment. F. G. Giris, A. Inglis, M. Panio, P. Pellicci, G. Stassa.

A functionally and clinically oriented introduction to the extremities and back. There will be each week a one-hour conference on radiographic anatomy,

and a one-hour clinical conference with case presentation. Offered jointly by the staffs of the Departments of Anatomy and Radiology and the Division of Orthopedics of the Department of Surgery.

## Anesthesiology

### Professors of Anesthesiology

J. F. Artusio, Jr., chairman; W. S. Howland, A. Van Poznak

### Clinical Professor of Anesthesiology

M. J. Topkins

### Associate Professor of Anesthesiology

O. Schweizer

### Clinical Associate Professors of Anesthesiology

H. L. Erlanger, P. Goldiner, J. McCormick

### Clinical Assistant Professors of Anesthesiology

L. L. Balazs, R. G. Barile, I. Berlin, D. Borovac, G. G. Curtis, J. L. Fox, A. Gotta, A. H. Goulet, D. Jascott, R. Kahn, A. F. Kass, R. Lin, L. J. Maggio, M. B. Meyers, S. M. Rooney, R. A. Rossi, C. Sanger, J. Schwartz, D. Susman, M. Tjeuw, L. Turner, D. Vuckovic, J. Weingram, F. S. Yao

### Instructors in Anesthesiology

V. Malhotra, E. Sia-Kho

### Clinical Instructors in Anesthesiology

G. Balint, G. Carlon, R. Cesar, H. Green, S. Gunasti, S. R. Jalandoni, J. W. Konovitch, I. Lin, E. Lobrin-Farcon, T. V. Miles, J. Nagy, R. C. Natoli, J. Planner, A. N. Rachleff, J. P. Ragasa, K. J. Rosenbaum, S. Rosenbaum, H. Sayegh, M. Schnapp, J. E. Shahmoon, H. Shifrin, L. D. Silver, A. E. Wightman, C. P. Yang, A. T. Zimbard

### Clinical Associates in Anesthesiology

G. Bertoni, P. Burns, R. Carr, R. Cassara, J. Charney, D. H. Cho, A. Desai, J. Hopkins, S. Jain, R. Janik, F. Kalishman, C. H. Kim, Y. S. Kim, D. Kleinman, G. Moskwa, J. Salzer, S. Seidman, H. Sernaker, S. Shoum, F. Towayer

### Required Courses

#### Second Year

The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered, not only as depressants of the central nervous system, but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The department also assists in the teaching about drugs that affect respiratory



mechanisms. It participates in lectures, laboratory demonstrations, and student seminars.

### Third Year

Anesthesiology is taught during seminar-discussion periods. The subjects covered are: cardiac and respiratory resuscitation; the medical care of the surgical patient; respiration therapy; and the evaluation, diagnosis, and treatment of pain.

## Elective Options

### Third Year

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists and the Department of Anesthesiology.

### Fourth Year

A clinical or research program is offered by the department to fourth-year students. In the clinical program, the student is assigned to an attending anesthesiologist. The time is spent with the attending anesthesiologist, making preoperative visits, administering anesthesia, and performing postoperative and recovery care. Emphasis is placed on respiratory physiology, therapy, and resuscitation. Progressive participation and responsibility is given to the student. A research elective can be arranged either at The New York Hospital or Memorial Hospital for individual students.

## Biochemistry

### Professors of Biochemistry

A. Meister, Israel Rogosin Professor of Biochemistry, chairman; E. M. Breslow, R. H. Haschemeyer, A. Novogrodsky, A. S. Posner, A. L. Rubin (surgery), R. L. Soffer (medicine), K. H. Stenzel (surgery)

### Adjunct Professors of Biochemistry

B. L. Horecker, C. Y. Lai

### Visiting Professor of Biochemistry

J. F. Williams

### Associate Professors of Biochemistry

J. S. Goldstein, R. R. Riggio (surgery), S. S. Tate, D. Wellner, K. R. Woods

### Associate Professors of Clinical Biochemistry

G. F. Fairclough, J. D. Gass, J. F. Sullivan

### Adjunct Associate Professor of Biochemistry

J. M. Manning

### Assistant Professors of Biochemistry

A. L. Boskey, J. Chami, J. S. Cheigh (surgery), J. S. Cornell, T. E. Duffy (neurology), K. Field, H. Gilder (surgery), O. Griffith, B. R. Leslie, S. G. Powers, S. E. Saal, E. T. Schubert (pediatrics), M. Suthanthiran, L. Tapia

### Adjunct Assistant Professor of Biochemistry

P. P. Trotta

### Visiting Assistant Professor of Biochemistry

O. S. Won

### Instructor in Biochemistry

A. J. L. Cooper

### Research Associates in Biochemistry

B. Dharmgrongartama, V. P. Wellner

### Postdoctoral Research Fellows in Biochemistry

B. Boettcher, R. N. Hickey, L. Oppenheimer, J. Williamson

### Fellows in Biochemistry

H. Fillit, J. Novello, J. A. Pannone, J. Stack

### Research Assistants in Biochemistry

M. Anderson, R. Bridges, S. Gardell, E. Grau, D. Kaseman, B. Nash, F. Riftina, G. P. Todd

## Courses

**Medical Biochemistry** Offered during the first and second trimesters.

Designed for medical students. The chief concern is with the biochemical principles that are fundamental to medical problems. Basic biochemical information will be presented and integrated with selected nutritional and health problems of concern to physicians, by means of lectures, group conferences, and participation in clinical rounds.

First trimester: Chemical and physical properties of biomolecules, enzymology, and metabolism of carbohydrates, lipids, amino acids, and nucleic acids; associated clinical problems.

Second trimester: Greater emphasis on the metabolic aspects of biochemistry and the medical consequences of disturbances in intermediary metabolism; special topics in biochemistry that are relevant to current medical problems.

**1. General Biochemistry (Biochemistry 2A and 2B)** Offered by the staff of the Field of Biochemistry, Medical College Division, and of the Biochemistry Unit, Sloan-Kettering Division. Fall trimester: M T Th F 11-12. Winter trimester: T Th F 11-12. R. H. Haschemeyer, S. S. Tate, E. Balis, and staff.

This is an introductory course designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. Graduate students in biochemistry are required to pass this course (or its equivalent) prior to pursuing advanced courses.

**2. Advanced Biochemistry** A graduate course in biochemistry is offered jointly by the faculties of the Medical College Division and the Sloan-Kettering Division. In each trimester, two lectures are given each week. It is not essential that students take the course in any particular sequence. The following subjects will be considered at an advanced level, with particular attention to contributions of recent research.

Winter trimester: Physical biochemistry: methodology. M. Sherman and staff.

Spring trimester: Cellular regulation and control. J. Parham and staff.

**3. Research in Biochemistry** By arrangement with the chairman of the department.

**4. Molecular Medicine** Faculty members of the Department of Biochemistry participate in the Cornell University Medical College Program for Molecular Medicine. Information about this program may be obtained from the department.

## Elective Options

### First Year

**General Biochemistry (Biochemistry 2A and 2B)** is offered as an elective course to medical students. See course description above.

### Fourth Year

Opportunities for biochemical research on a variety of topics are offered to medical students during their fourth year. The options available for 1979-80 and the special interests of the faculty are listed below.

- A. Boskey: mechanisms of biological calcification; role of phospholipid in bone and tooth formation, structural studies of hard tissues by X-ray crystallography and electron microscopy
- E. Breslow: protein-protein and metal ion-protein interactions; chemistry of the neurophysins
- A. Cooper: ammonia, amino acid, and  $\alpha$ -keto acid metabolism in the brain; use of  $^{13}\text{N}$  isotopic tracers in brain metabolic studies
- J. Cornell: biochemistry of reproduction; protein chemistry of the placenta
- T. Duffy: carbohydrate and energy metabolism in altered functional states of brain; ammonia detoxification and hepatic coma; effect of anoxia on the developing brain
- G. Fairclough: protein chemistry; clinical biochemistry
- J. Gass: mechanism of enzyme action; clinical biochemistry
- H. Gilder: metabolic response to surgery; electrolyte studies of gastric juice; studies in experimental shock
- J. Goldstein: role of RNA in protein synthesis; fraction-

ation of nucleic acids; role of macromolecules and protein synthesis in the maturation of red blood cells

- O. Griffith: design and synthesis of enzyme specific substrates and inhibitors; *in vivo* manipulation of metabolic pathways; enzyme mechanisms; sulfur amino acid metabolism
- R. Haschemeyer: structure of fibrinogen and subunit interactions in protein and nucleoproteins; electron microscopy of enzymes and viruses; lipoprotein structure and function
- B. Horecker: mechanism of enzyme action; regulation of enzyme action; intermediary metabolism of carbohydrate.
- C.-Y. Lai: bacterial toxins and membrane-mediated cell functions
- A. Meister: enzymology; proteins and amino acids
- A. Novogrodsky: lymphocyte activation, cell-cell interactions
- A. Posner: crystal chemistry; ultrastructural biochemistry; atomic structure of bone; hard tissue chemistry
- S. Powers: regulation of enzyme activity; protein-protein interactions; mechanism of enzyme action
- R. Riggio: transplantation; dialysis and biomaterials research
- A. Rubin: collagen structure and function; biomaterials research; dialysis; transplantation research
- E. Schubert: enzyme studies of the developing kidney; investigation of renal dysfunction at enzyme level
- R. Soffer: enzymatic posttranslational modification of proteins; membrane-enzyme interaction; enzyme-antibody interaction; angiotension converting enzyme and regulation of blood pressure
- K. Stenzel: transplantation; dialysis and biomaterials research
- S. Tate: amino acid, peptide transport; plasma membrane enzymes; metabolism and physiology of hypothalamic-releasing hormones
- P. Trotta: adenosine: growth and differentiation
- D. Wellner: enzyme kinetics; mechanisms of enzyme action; protein structure
- K. Woods: physicochemical understanding of human blood fractions; blood coagulation; structure of antibodies

## Medicine

### Professors of Medicine

H. E. Williams, chairman; D. Armstrong, A. G. Bearn, Stanton Griffith Distinguished Medical Professor, D. V. Becker, J. P. Blass, M. D. Bogdonoff, W. A. Briscoe, C. L. Christian, B. D. Clarkson, F. Daniels, Jr., R. L. Engle, R. A. Good, S. J. Hadley, P. C. Harpel, L. E. Hinkle, N. B. Javitt, L. J. Kagen, A. Kappas, J. H. Laragh, Hilda Altschul Master Professor of Medicine, M. Lipkin, S. D. Litwin, E. H. Luckey, A. J. Marcus, W. P. L. Myers, R. L. Nachman, H. F. Oettgen, R. E. Peterson, G. G. Reader, R. S. Rivlin, R. B. Roberts, A. L. Rubin (surgery), B. B. Saxena, L. Scherr, P. Sherlock, G. W. Siskind, R. L. Soffer (biochemistry), M. Sonenberg, K. H. Stenzel (biochemistry), L. Thomas, D. D. Thompson, M. E. Weksler, Irving Sherwood Wright Professor of Geriatrics

### Professors of Clinical Medicine

J. A. Barondess, A. W. Feinberg, M. Horwith, K. Mayer

### Clinical Professors of Medicine

J. W. Dougherty (dermatology), M. Dworetzky (allergy), W. J. Eisenmenger, A. Feder, J. L. German (human genetics), F. T. Kirkham, A. B. Ley, W. J. Messinger, M. A. Payne, R. A. Rees Pritchett, I. Rosenfeld, R. T. Silver, H. Steinberg, D. P. Torre

### Adjunct Professors of Medicine

E. H. Ahrens, E. L. Becker, Z. Cohn, J. Hirsch, J. G. Hirsch, H. G. Kunkel, J. Lederberg, D. E. Rogers, A. H. Samiy, P. Samuel, M. Siniscalco

### Visiting Professor of Medicine

E. W. Hook

### Associate Professors of Medicine

M. H. Alderman, R. S. Benua, J. S. Borer, N. Brachfeld, D. B. Case, M. Coleman, B. Shannon Danes, T. J. Degnan, E. E. Deschner, M. Gardy, E. L. Gottfried, S. Gupta, Y. Hirshaut, R. W. Houde, J. R. Hurley, E. A. Jaffe, W. D. Johnson, T. C. Jones, T. K. C. King, M. D. Lockshin, J. B. Morrison, W. Nagler, A. Novogrodsky, P. E. Phillips, T. G. Pickering, P. Rathnam, M. M. Reidenberg, R. R. Riggio (biochemistry), B. Safai, S. S. Scheidt, J. E. Sealey, R. L. Sherman, M. E. Shils, J. K. Smith, P. E. Stokes, P. Vanamee, B. B. Weksler, S. J. Winawer, C. W. Young

### Associate Professors of Clinical Medicine

J. S. Cheigh (biochemistry), W. N. Christenson, H. E. Claremont, L. M. Drusin, T. J. Fahey, T. S. Gee, R. B. Golbey, M. C. Isaacs, H. Klein, S. A. Kline, C. S. LaMonte, B. J. Lee, R. D. Leeper, C. J. Lightdale, L. U. Mailloux, D. Margoulev, V. Padmanabhan, R. Schaefer, E. Scheiner, R. E. Schneckloth, C. R. Steinberg, J. F. Sullivan, R. J. Timberger, M. Tulin, V. P. Vinciguerra, A. Yagoda, S. D. J. Yeh

### Clinical Associate Professors of Medicine

S. Advocate, W. A. Anderson, L. I. Ardit, S. C. Atkinson, R. J. Baliff, L. T. Barnes, H. Z. Benjamin, M. R. Berenyi, M. Berkun, C. A. Berntsen, R. T. Binford, E. L. Bodian, J. L. Brown, D. J. Cameron, V. A. Cipollaro, J. A. Covey, A. N. Ehrlich, H. Erle, E. Ettinger, J. T. Flynn, A. H. Freiman, D. L. Globus, J. M. Glynn, B. H. Goldberg, H. Goldin, C. H. Goodrich, G. W. Gorham, E. J. Greenberg, S. J. Gulotta, L. L. Heimoff, R. A. Herrmann, R. Hochman, D. W. Hoskins, N. J. Isaacs, D. S. Kent, M. Kurtz, M. J. Lacher, L. R. Lese, J. S. Lieberman, L. B. Lowe, N. M. Luger, N. T. Macris, A. W. Mead, D. G. Miller, W. J. Noble, I. Nydick, L. H. Pedersen, M. Perlmuter, F. S. Perrone, A. A. Pollack, J. Richard, E. A. Riley, W. C. Robbins, T. N. Roberts, N. Rosenthal, E. Rudd, E. Schwartz, S. D. Shappell, C. Sheard, J. P. Smith, L. S. Sonkin, P. H. Stern, L. Strauss, L. B. Turner, A. Ullmann (social work), G. I. Wadler, L. A. Wallis, C. G. Weiman,

H. S. Weiss, A. D. Wells, J. M. Wertheim, A. L. Winston, M. J. Wolk

### Adjunct Associate Professors of Medicine

K. D. C. Edwards, G. J. Goodfield, M. J. Kreek, E. J. Lorenze, M. Muller, R. J. Winchester

### Visiting Associate Professor of Medicine

M. Levy

### Assistant Professors of Medicine

Z. A. Arlin, S. A. Atlas, P. A. Bluestone, A. L. Blumberg, R. Bockman, G. J. Bosl, R. L. Braham, B. D. Brause, C. P. Bredin, W. T. Brown, D. R. Budman, E. S. Casper, J. Chami (biochemistry), M. E. Charlson, E. W. Cheng, G. J. Darlington, R. B. Devereux, A. Dimich, C. D. Flombaum, T. J. Garrett, D. L. Gibbs, A. Gibofsky, E. A. Goidl, J. Gold, J. E. Goldstein, R. J. Gralla, R. Green, E. B. Grossbard, T. Hakes, M. B. Hayes, H.-C. Hsieh, J. L. Imperato, R. Inman, L. G. Juvancovic, D. P. Kelsen, N. E. Kemeny, S. J. Kempin, T. Kiehn, Y. T. Kim, R. Kimberly, P. D. Kligfield, J. Kluger, B. J. Klyde, I. A. Kourides, B. Koziner, S. E. Krown, R. Kurtz, M. Lange, B. R. Leslie, D. M. Libby, P. O. Livingston, J. A. Lopez-Ovejero, G. B. Magill, J. A. Markenson, S. J. Marks, H. Masur, R. H. Mertelsmann, A. Moore, R. T. Mossey, H. W. Murray, A. P. Niarchos, M. Ochoa, S. Paget, M. W. Pasmanter, M. K. Pierri, P. Pindyck, C. M. Pinsky, J. Pinto, R. A. Pizzarello, E. M. Rabellino, P. M. Reiser, A. Rifkind, B. N. Romney, S. E. Saal, C. D. Saudek, C. Singer, D. E. Stover, D. J. Straus, M. Suthanthiran (biochemistry), M. P. Sykes, L. Tapia (biochemistry), D. Vugrin, M. B. Walsh, R. E. Wittes, T. M. Woodcock, N. L. Young, C. G. Zaroulis

### Assistant Professors of Clinical Medicine

J. E. Franklin, R. J. Kaufman, J. W. Magill

### Clinical Assistant Professors of Medicine

R. S. Aaron, H. E. Abel, R. R. Abel, J. Applebaum, R. S. Ascheim, R. A. Asherson, R. A. Baer, D. R. Bajorunas, B. Benjamin, K. J. Berenyi, H. Bienenstock, B. Delli-Bovi, M. J. Bradford, R. G. Brayton, J. P. Christodoulou, M. A. Clark, D. E. Cohen, I. R. Cohen, R. Collier, C. Stephen Connolly, M. W. Conovitz, F. P. Coombs, L. B. Cooperman, L. R. Corn, A. H. Covey, D. S. Cox, J. Cramer, V. E. Currie, M. T. Diamond, C. H. Diehl, K. Dittmar, A. L. Edwards, E. R. Esakof, C. T. Failmezger, G. A. Falk, S. Farber, S. Fenig, J. A. Finkbeiner, C. E. Forkner, J. S. Gitlin, D. Gluck, M. J. Goldstein, C. H. Goodsell, J. H. Gordon, R. V. Gorman, J. Greenspan, M. J. Hanley, J. G. Hayes, J. M. Hayes, M. L. Heilbraun, E. I. Henry, A. C. Hill, L. A. Janoff, R. C. Johnson, V. A. Joy, S. Katz, L. Klein, R. Kloogman, L. S. Kryle, P. Kuslansky, P. B. Lang, M. C. Larsen, M. G. Lewisohn, D. G. McKaba, G. A. McLemore, M. R. Marciano, P. L. Margulies, M. Masur, D. E. Miller, A. E. Mirkinson, G. P. Mirrer, D. W. Molander, E. Muss, R. R. Nenner, M. Nydick, P. A. Orens, L. D. Pace, G. E. Paley, B. Park, R. E. Perkins, G. A. Piccione, H. B. Pollak, M. R. Post, A. Potor, M. I. Rehmar, L. M. Reich, M. Rivelis, C. S. Rosen,

A. S. Rosenberg, A. M. Ross, H. P. Saltzman, S. Schutzer, L. Schuyler, D. G. Schwartz, P. C. Schwartz, D. Schwimmer, F. A. Seixas, K. C. Shah, G. M. Silverman, H. A. Sinclair, C. Smithen, A. G. Snart, L. M. Soletsky, H. A. Solomon, J. Sotelo, F. H. Streuli, R. Stritzler, M. L. Tapper, P. G. Tolins, F. A. Tomao, R. J. Ulberg, L. J. Vorhaus, J. H. Weiss, J. M. Weiss, K. A. Whelan, M. L. Wiedman, D. A. Zackson

#### Adjunct Assistant Professors of Medicine

K. E. Anderson, R. A. Berman, R. S. Bodaness, R. G. Lahita, J. Markofsky, S. B. Meshnick, J. E. Parrillo, F. S. Schwartz

#### Instructors in Medicine

M. J. Broekman, M. Brower, A. T. Brown, J. J. Castronuovo, J. Coromilas, G. C. Ellis, M. Fialk, R. L. Jones, P. C. Klass, R. L. Letcher, P. Schulman, S. T. Silk, M. J. Tennenbaum, E. S. Treiber

#### Clinical Instructors in Medicine

G. Aprile, E. M. Aronow, J. R. Bakke, J. A. Belladonna, A. Binder, B. J. R. Blom, I. H. Blumenfeld, E. V. Calvelli, Y. A. Cestero, D. R. Charieri, S. H. Charno, B. H. Cohen, J. L. Cohen, M. L. Cohen, M. Cramer, A. J. de Silva, C. P. Deal, R. A. DeLeon, R. Dresdale, J. C. Dreyfus, J. Elahi, R. L. Erickson, K. A. Ewing, A. Faga, M. J. Fisher, A. Fried, M. H. Fried, P. M. Gelber, W. Gershenson, E. Gillman, M. Goldberg, J. B. Graff, S. E. Greenstein, P. A. Hamlin, I. Horowitz, M. L. Hundert, K. S. Hurst, P. M. Hyman, F. W. Iacobellis, B. Inkeles, C. Jarowski, H. H. Jay, T. P. Jernigan, S. L. Kellman, M. J. Kleiner, A. Lantz, J. J. LaRosa, I. S. Lowenthal, H. A. McManus, P. Marcus, R. S. Martin, I. I. Mason, S. C. Mead, J. M. Meron, S. I. Michael, C. Mitgang, C. J. Modny, F. X. Moore, R. W. Morrow, J. Nagler, R. W. Nagler, D. J. Nicoll, S. A. O'Shaughnessy, A. Philson, I. Pravda, G. D. Resnick, C. Ressler, S. Richmond, N. S. Ritter, A. M. Rochwarger, J. S. Rodman, J. Romano, B. M. Rosoff, G. L. Ross, K. A. Rubin, M. Schermer, A. Schrenzel, B. H. Shalette, H. Shapiro, S. R. Siegel, M. G. Smilay, M. N. Solny, A. B. Spindler, E. L. Stannard, R. A. Stephens, R. Stern, R. L. Strauss, S. Strick, E. C. Sturla, I. Tiongco, A. Tucci, T. L. Tuttle, W. P. Wagner, D. J. Wolf, S. S. Yormak, M. J. Zema

#### Senior Research Associates in Medicine

Y. T. Kim, M. Polley

#### Research Associates in Medicine

G. Botwin, J. Camiscoli, H. Dettelbach, T. Francus, R. Knowles, P. Post, A. Roy, D. Sammons

#### Senior Visiting Lecturer in Medicine

L. Scharer

#### Fellows in Medicine

S. Abrams, F. Arena, I. Bakoss, M. Balkin, J. Beary, A. Bellucci, P. Benedetto, C. Beverley, M. Blumenreich, L. Borenstein, J. Bradof, T. Braun, J. Brenner, R. Bronzo,

E. Camacho, R. Chapman, M. Collins, G. deBoccardo, P. Dhabhar, L. Dillon, R. Dorazio, B. Dworkin, C. Eng, B. Epemian, S. Eisenberg, W. Evans, K. Field, H. Fillit, N. Flomenberg, A. Forastiere, P. Francioli, A. Friedman, J. Garofalo, M. Gersten, H. Goldberg, B. Gordon, V. Graziano, S. Gulati, K. Haines, S. Handelsman, H. Hansen, B. Hartman, E. Hawrylo, E. Healy, D. Hollister, Jr., A. Houghton, B. Jones, D. Kerr, L. Kessler, J. Laurence, L. Leung, M. Levin, D. Lewin, M. Lewin, G. Lynch, J. McCravy, S. Magid, L. Matsuoka, C. Maltz, D. Mazal, L. Merle, R. Michaelson, M. A. Michelis, C. Miller, D. Miller, M. Minerbrook, P. Miscovitz, A. Murgo, R. Natale, B. Needles, J. Noble, J. Novello, R. Olgiati, L. Ong, J. Pannone, J. Pape, T. Parris, M. Perlin, M. Phillips, R. Polk, M. Robbins, J. Rubenstein, M. Ruddy, S. Saletan, P. Schauer, E. Schned, R. Schneider, E. Schnipper, R. Schuloff, G. Shepherd, G. Shiimoto, S. Simon, R. Sklaroff, V. B. Smith, P. Sordillo, L. Soruco, J. Stack, R. Stechel, P. Stiff, M. Stoopler, B. Taylor, H. Teitelbaum, N. Toshav, R. Warrell, B. Weiser, H. Whitman III, B. Wong, J. Zeffren, M. Zullo

#### Postdoctoral Associates in Medicine

G. Byrne, R. DeKruyff, T. Dougherty, G. Harshfield, D. Horne, F. Khan, T. Kinoshita, M. Levine, C. Moody, Jr., P. Morris-Brink, K.-G. Post, P. Sonnino-Goldman, Y. Tanaka

#### Senior Clinical Associates in Medicine

R. Cohen, R. Soave, G. Weissman

#### Clinical Associates in Medicine

A. Adler, K. L. Ales, S. Allen, M. Anesta, R. Baker, W. P. Ballard, E. Barrett, G. Bolen, W. Bottner, R. Brandstetter, W. Breen, J. Brody, R. Busch, P. Carr, W. Caccese, A. Chiaramida, R. Daines, M. Druck, J. Durrett, P. Dworkin, A. Einzig, M. Elam, C. Farber, R. Fath, S. Feldman, A. Fels, K. Franklin, H. Gerstein, W. Given, J. Goldberg, L. Goldfarb, R. Gubner, H. Harper, M. Hillman, E. Ho-Kung, M. Jacobs, R. Kaplan-Treiber, A. Kivitz, H. Kramer, M. Kris, M. M. Kuntz, J. Kutscher, L. Lebetkin, M. Levi, M. Lewin, T. C. Li, H. H. Liu, R. Malamet, J. Mariglio, D. Melnick, E. Mermelstein, B. R. Meyer, I. J. Miller, P. Myskowski, T. Nash, C. Natanson, W. O'Connor, S. Osa, J. Ostroff, P. Phillips, F. Rakowitz, J. Redman, S. Reisman, J. Reynolds, C. Riester, J. Rommer, R. Rosado, S. Rosner, R. Rothbart, J. Ruggerio, N. Sadick, J. Salmon, R. Saltz, M. Schiff, T. Schreiber, S. Schwartz, C. Sears, D. Shabas, C. Shear, C. Small, J. Sondheimer, H. Staszewski, C. Storey-Johnson, A. Talansky, P. A. Taufield, M. Wade, L. Walters, V. Wang, M. Warner, S. Weisholtz, N. Wenner, D. White, S. Wymna, D. Young, J. Zimmerman

#### Teaching Associates in Medicine

D. Mangraviti, M. Zuckrow

#### Staff Associates in Medicine

J. Banes, S. Blank, J. Brandon, B. Ferris, W. L. Marsh, I. Pyros

## Research Assistant in Medicine

Y.-W. Chen

The program for the Department of Medicine is based on a number of cardinal premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career. (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at the clinical or laboratory levels. (3) The scope and limitations of medicine are best revealed through the demands and responsibilities of patient care. (4) The need and privilege to provide sympathetic understanding and support to the patient and the patient's family are prerequisites to being a good physician.

It is evident that a large number of options are open to those pursuing a career in medicine; a diversity that includes clinical, specialty, laboratory, and administrative areas. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities, and needs. There is no preconceived image of an ideal graduate except that he or she be competent and content in the career choice, and be sufficiently well prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow thoughtful exploration and evaluation of career possibilities.

The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concepts developed in the basic sciences. This approach to the interpretation of symptoms, signs, and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value. The depth to which each student pursues the pathophysiologic approach will vary from a study of the physical and emotional factors responsible for illness in a single patient to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through their experiences, students will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

## Required Courses

### First Year

**Introduction to Medicine** The transition period between the undergraduate and professional level may be a bewildering experience. The knowledge and understanding to be acquired appears, at times, to be overwhelming—often becoming an end in itself rather

than recognized as the foundation of medicine. The purpose of this course is to provide the student with an overview of medicine in order to gain perspective of his or her initial efforts and feelings. The areas to be explored and examined include (1) the patient-physician relationship, (2) methods and principles of diagnosis, and (3) clinical application of the concepts and knowledge derived from the basic sciences. The student will be instructed in basic skills of clinical medicine and provided with the opportunity to examine patients.

### Second Year

Instruction begins in the last trimester and consists of two coordinated courses.

**Physical Diagnosis** The course is an intensive introduction to the basic bedside clinical skills, i.e., the taking of a medical history and the performance of a physical examination, with emphasis on the anatomic and physiologic principles underlying the important symptoms and signs encountered in clinical medicine. Lectures and demonstrations, supplemented by extensive use of audiovisual and electronic aids, form the didactic basis of the course; special attention is directed to the medical interview and the approach to the incurable or dying patient. In addition, students are assigned in small groups to clinical tutors, with whom they refine their bedside skills in biweekly examination of inpatients under close tutorial supervision. Patient examinations are carried out at the Cornell cooperating hospitals: The New York Hospital, Memorial Hospital, and the North Shore University Hospital.

**Pathophysiology** The course is designed to link the basic sciences with clinical medicine by demonstrating how laboratory methods and information may be used in clinical practice. Each of the divisions of the department participates with presentations, including lectures and case studies, that are discussed in small groups. Laboratory exercises are employed in the hematology and renal sections to provide an understanding of analysis of blood and urine. The approaches used to determine the degree and extent of deranged function of organ systems in the context of their pathophysiology are developed.

### Third Year

**Clerkship** Each student is assigned to one or more of the medical services of the Cornell cooperating hospitals for a period of eleven weeks. He or she is an integral member of a medical team which is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records the findings. The student's results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. The student actively participates in the continued care of the patient, in part to verify or alter his or her initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by seminars and by the large number

of conferences and lectures regularly held by the department.

## Elective Options

Over fifty electives are offered throughout the four years. The comprehensive program includes participation in laboratory or clinical research or, if desired, further opportunities for patient care. Each year the elective list is revised and can be found in the *Catalog of Electives*.

## Microbiology

### Professors of Microbiology

W. F. Scherer, chairman; W. M. O'Leary

### Associate Professors of Microbiology

R. W. Dickerman, L. B. Senterfit, D. H. Sussdorf

### Assistant Professors of Microbiology

Z. Harsanyi, M. E. Wiebe

### Research Assistants in Microbiology

C. Blanckmeister, Y. W. Chen, M. P. Davey, E. A. Emini, J. A. Federick, R. W. Kozak, L. H. Morehead, C. D. Rothermel, D. R. Stanick, L. Staiano-Coico, C. Swenson, S. Urmacher, J. E. Van Hamont, D. Wallace

## Required Courses

### Second Year

**Microbiology and an Introduction to Infectious Diseases** First and second trimesters. Laboratory work includes an introduction to the procedures used in studying microorganisms, various physical and biological manifestations of antigen-antibody reactions, a survey of the microbial flora of the upper respiratory tract of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, bacteria, rickettsiae, and viruses. The lectures are directed toward the development of basic concepts, particularly as they relate to microbial physiology, and host-parasite relationships, including immunologic mechanisms in infectious disease. Emphasized are the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention also is given to the immunological principles underlying hypersensitivity, autoimmunity tolerance, and rejection of transplants. Students also may carry out research in the Department of Microbiology under guidance of individual faculty.

## Elective Options

Completion of Microbiology and an Introduction to Infectious Diseases (or its equivalent) is a desirable prerequisite for elective work in microbiology.

**Research in Microbiology** Offered all year. Can be done entirely in the Department of Microbiology or

may involve another preclinical or clinical department. Hours to be arranged with a faculty sponsor (sponsors are listed below).

- R. W. Dickerman: involvement of birds and mammals in the ecology of mosquito-transmitted viruses
- Z. Harsanyi: genetics of viruses; genetic control of enzyme structure; drug and chemically induced chromosomal aberrations; genetics of *Aspergillus nidulans*
- W. M. O'Leary: microbial cellular composition; exotoxin and endotoxin structure and function; mechanisms of pathogenesis; microbial lipids; antibiotic function
- W. F. Scherer: cell-virus relationship; virus virulence; host defense mechanisms; ecology and epidemiology of arboviruses, especially mosquito-borne encephalitis viruses of tropical North and Central America
- L. B. Senterfit: antigenic structure of mycoplasma; pathogenesis of respiratory viral and mycoplasmic disease; vaccine development; clinical microbiology
- D. H. Sussdorf: function of the thymus and related lymphoid tissues in development of immunocompetence; immunology of the athymic ("nude") mouse; immunologic factors in chemical carcinogenesis
- M. E. Wiebe: molecular virology; mechanism of virus replication, host cell response, viral interference, and viral virulence

**Microbiology Seminar** Scheduled biweekly. Topics in microbiology and infectious diseases are presented by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

**Microbial Chemistry and Physiology** Lectures stress the growth and death of microorganisms, their chemical composition and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosynthesis, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolism. Third trimester. Two lectures and two laboratory periods weekly. Dr. O'Leary.

**Advanced Immunology** Cornell-Sloan-Kettering interdivisional course. Lectures, discussions, and assigned readings cover properties of antigens and antibodies; mechanism of antibody- and cell-mediated immunity; complement and other amplifiers; immunologic injury; regulation of the immune response; genetics and immunology of transplants and tumors. Laboratory work includes the isolation, quantitation, and characterization of antibodies, critical measurement of antigen-antibody reactions, and the dynamics of the *in vivo* antibody response. Second and third trimesters, two lectures weekly; third trimester, two laboratories weekly. Dr. Sussdorf.

**Advanced Virology** This course presents modern concepts and techniques, including physical and



chemical properties of viruses; structure-function relationships, viral genetics, viral morphogenesis; mechanisms of viral infections; viral oncology; epidemiology; slow viruses; newer infectious agents (viroids); and the interferon system. Third trimester. Two lecture-seminars and laboratories weekly. Dr. Wiebe.

**Advanced Microbial Genetics** Examinations of selected concepts of molecular genetics using both prokaryotic and eukaryotic microorganisms as models. Topics include intra- and interchromosomal complementation, mitotic and meiotic recombination, genetic control mechanisms, gene conversion, polyploidy and aneuploidy, genetic interference, mechanisms of suppression, and polarity. Emphasis is given to the genetic methods available for studying hereditary material. Third trimester. One lecture weekly. Laboratory demonstrations. Dr. Harsanyi.

**Advanced Diagnostic Microbiology** Techniques of management and procedures used in a clinical microbiology laboratory. Emphasized are the isolation and rapid identification of organisms from various types of clinical specimens. Liberal use is made of clinical materials available through the diagnostic laboratories of The New York Hospital. Third trimester. Two lectures and two laboratories weekly. Dr. Senterfit.

**Clerkship in Diagnostic Microbiology** Training in diagnostic microbiology as it is practiced in a large hospital laboratory, using the facilities of the diagnostic microbiology laboratories of The New York Hospital. Any trimester. Dr. Senterfit.

#### Fourth Year

A variety of activities in study, research, and teaching is available to fourth-year students during their elective program of study. Included are:

#### Externship in Microbiology

#### Teaching in Microbiology

#### Research in Microbiology

#### Clerkship in Diagnostic Microbiology Dr. Senterfit

#### Advanced Immunology Dr. Sussdorf

#### Microbiology Seminar Dr. Senterfit

#### Microbial Chemistry and Physiology Dr. O'Leary

#### Advanced Diagnostic Microbiology Dr. Senterfit

#### Advanced Virology Dr. Wiebe

#### General Microbiology Dr. Hutchison, Dr. O'Leary

#### Microbial Genetics Dr. Harsanyi

For detailed descriptions of these options, the student should consult the *Catalog of Electives*.

## Neurology

### Professors of Neurology

F. Plum, Anne Parrish Titzell Professor of Neurology, chairman; I. B. Black, J. P. Blass, Winifred Masterson Burke Professor of Neurology, M. S. Gazzaniga, F. H. McDowell, Winifred Masterson Burke Professor of Rehabilitation Medicine, J. B. Posner, D. J. Reis, W. R. Shapiro

### Adjunct Professors of Neurology

J. B. Brierley, M. Kumada, L. Sokoloff

### Associate Professors of Neurology

H. R. Beresford, T. E. Duffy, K. M. Foley, T. H. Joh, H. Kutt, P. S. Papavasiliou, V. Pickel, R. W. Price, D. A. Rottenberg

### Associate Professors of Clinical Neurology

F. Petito, G. E. Solomon, M. Olson, P. Tsairas

### Clinical Associate Professors of Neurology

R. H. Coll, M. A. Green, T. C. Guthrie, G. H. Klingon, H. deC. Peterson, I. D. Schlesinger, P. H. Zweifach

### Research Associate Professor of Neurology

J. Z. Ginos

### Assistant Professors of Neurology

J. C. Allen, A. J. L. Cooper, M. Coughlin, J. H. Dougherty, G. E. Gibson, R. W. Hamill, M. S. Horwich, J. A. Kessler, D. E. Levy, V. S. Murthy, D. H. Park, G. W. Pasternak, G. T. de Pinczuk, W. A. Pulsinelli, R. A. Ross, J. A. Schaefer, B. Sigsbee, W. T. Talman, B. Volpe, D. Young

### Clinical Assistant Professors of Neurology

R. H. Blanck, W. A. Camp, J. T. Kessler, D. M. Pietrucha, D. G. Rawlinson, L. N. Travis, B. C. Wilson

### Instructors in Neurology

J. E. Adler, H. D. Baker, D. R. Burdette, J. G. Cairncross, P. J. Maccabee, M. Nakai, R. L. Ruff, J. T. Scally, R. LeG. Van Uiter, R. G. Wiley

### Research Associates in Neurology

A. K. Dhar, E. R. Fenton, C. A. Garcia, J. G. Ghajar, S. T. Miller, R. D. Pea

### Clinical Associates in Neurology

N. W. Barton, D. J. Giulian, H. S. Greenberg, H. S. Gutstein, D. A. Hafler, M. Jacewicz, R. Kanner, S. Kori, R. P. Kraig, J. Leavengood, M. B. Max, N. Nealon, E. A. T. Obbens, R. Payne, S. Rapaport, W. Reichert, C. B. Saper, T. M. Voorhies, W. Wasserstrom, W. A. Yung

### Postdoctoral Associates in Neurology

R. H. Benno, E. Bloom, M. Cavazzuti, G. Dienel, G. M. Jonakait, A. Francis, T. M. Hines, J. LeDoux, M. H. Perrone, D. Ruggiero, J. Sage, J. Sidtis

### Staff Associates in Neurology

M. Brodsky, R. Lapinski, C. Smylie, A. Swerdloff, L. Tucker

### Graduate Research Assistants in Neurology

D. Armstrong, M. Jouandet, C. Ross

The department has three responsibilities: patient care, teaching, and research. The faculty supervises the care of patients with neurological diseases at The New York Hospital, Memorial Hospital, the Hospital for Special Surgery, and the North Shore University Hospital. This rich clinical exposure and the rewards of providing care to patients from many geographic and social backgrounds are shared by students and residents. The research laboratories and programs of the department are located within the Medical College and at the several hospitals. These laboratories conduct both fundamental and clinical research, seeking the basic answers to neurological diseases and new ways to improve the delivery of treatment to patients. Research projects include the search for new chemicals to treat brain cancer, investigations into the mechanisms and treatment of brain tissue damage in stroke, the discovery and analysis of chemicals in the brain that cause and control rage and aggression, and a search for basic mechanisms in epilepsy.

Two goals guide the teaching of students. One is to learn diagnosis and treatment by a thorough knowledge of the physiology and biochemistry of the major neurological diseases. The other is to transmit an initial understanding of the brain as an adaptive organ regulating man's internal milieu and outward behavior. Formal teaching begins in the second year and continues thereafter.

## Required Courses

### Second Year

An introductory course in neurological diagnosis is offered in the third term, closely linked to the general physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and abnormal signs and symptoms. Each week under an instructor's guidance, students examine patients with neurological disease.

### Third Year

A one-month clinical clerkship is spent in the neurological pavilion of either The New York Hospital or Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of patients under the close supervision of house staff and tutors. Extensive reading is encouraged in order to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems

where current research is making important contributions. Daily seminars in psychiatry continue throughout the clerkship, reinforcing in the student's mind the close relationships between psychological disorders and brain dysfunction.

## Elective Options

A variety of electives in either clinical work or laboratory research is available to fourth-year students. Dr. Plum provides an advanced seminar in behavioral topics. Inpatient clerkships are available for whole-time work in neurology at Memorial Hospital and in clinical neurology at The New York Hospital and North Shore University Hospital. Dr. McDowell provides a varied outpatient elective that guarantees the student exposure to almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

## Obstetrics and Gynecology

### Professors of Obstetrics and Gynecology

W. J. Ledger, Given Foundation Professor of Obstetrics and Gynecology, chairman; P. A. McF. Auld (perinatal medicine), J. M. Bedford (reproductive biology), S. J. Birnbaum, A. N. Fenton, F. F. Fuchs, Harold and Percy Uris Professor of Reproductive Biology, E. E. Kramer, J. L. Lewis, B. B. Saxena (endocrinology), S. Silagi (genetics)

### Professors of Clinical Obstetrics and Gynecology

E. A. Graber, G. G. Hawks

### Clinical Professors of Obstetrics and Gynecology

H. R. K. Barber, E. W. Davis, W. P. Given, R. Landesman, R. A. Ruskin, W. J. Sweeney, H. J. Tatum

### Associate Professors of Obstetrics and Gynecology

A.-R. Fuchs, R. G. Harper, W. B. Jones, P. Rathnam (endocrinology), R. J. Young (reproductive biology)

### Associate Professors of Clinical Obstetrics and Gynecology

L. L. Cederqvist, M. Y. Dawood, D. J. Rothe

### Clinical Associate Professors of Obstetrics and Gynecology

J. M. Astrachan (psychiatry), M. I. Buchman, D. J. Casper, W. F. Finn, B. M. Garfinkle, S. T. Horwitz, F. E. Lane, N. M. Luger (medicine), J. P. Mahoney, F. W. Martens, M. A. Platt, S. F. Ryan, E. Schwartz, F. Silverman, E. T. Steadman, L. F. Vosburgh, R. E. Wieche

### Assistant Professors of Obstetrics and Gynecology

A. S. Berkeley, R. A. Bronson, S. Dittmar, G. Farahani,



J. H. Freel, L. G. Juvanovic, V. F. Mastrotta, D. L. Rosenfeld, A. Toth

### **Clinical Assistant Professors of Obstetrics and Gynecology**

N. K. Basile, A. Brockunier, R. M. Caplan, S. Cohn, J. T. Cole, P. Concannon, J. G. Davis, R. J. Derman, V. de Vigneaud, A. J. Felice, B. Garfinkel, W. Gladstone, H. B. Guyer, E. Hakin-Elahi, R. E. Hardy, A. Heltai, D. F. James, R. E. Kaye, W. L. Kron, E. O. Kubec, B. D. Lecher, B. Nathanson, G. G. Panter, Z. I. Saary (radiology), S. J. Siegel, F. Surur, K. Vasudeva, W. D. Walden, V. Werden

### **Instructor in Obstetrics and Gynecology**

W. Kim

### **Clinical Instructors in Obstetrics and Gynecology**

S. L. Bednoff, A. Bozza, J. H. Brander, M. Cozzens-Kessler, P. C. de Hempel, J. A. D'Urso, M. Eichler, G. B. Feldman, N. Fidel, J. Finkelstein, R. J. Fitzgerald, H. F. Gardstein, C. K. Hamrang, E. I. Jacobson, S. Kahner, D. J. Leahy, B. Lieberman, L. J. Lippert, L. J. Lissak, J. W. Malkary, P. Mazzarella, R. N. Melnick, E. K. C. Mok, W. B. Paley, J. I. Paris, B. D. Ramaley, K. A. Schrottenboer, A. S. Sherwin, P. Soffer, J. A. Spiegel, M. J. Strongin, B. Tisch, D. B. Weinstein, E. Weisfogel, J. J. Zaia

### **Fellows in Obstetrics and Gynecology**

P. Yarberry-Allen, M. Greenberg, E. Krim

### **Senior Clinical Associates in Obstetrics and Gynecology**

M. Harris, R. Herzog, R. Puckett, J. Rosen, I. E. Schwab, M. Toth, B. Zipkin

### **Clinical Associates in Obstetrics and Gynecology**

A. Albert, S. Chudow, R. Cooper, J. Delli-Bovi, A. Friedel, M. Grossman, J. Haile, K. Haupt, P. Karafiol, M. Killackey, J. Micha, H. Prince, S. Seidman, S. Siena, S. Sirota, C. Stark

### **Research Associate in Obstetrics and Gynecology**

S. Weintraub

### **Postdoctoral Associates in Obstetrics and Gynecology**

T. Calvelli, R. Foldes, F. Kahn, J. C. Rodger, P. Saling

## **Required Courses**

### **Second Year**

**Orientation and Introduction to Gynecological Examination** During the last trimester of the second year, one three-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Films and models for training in pelvic examination are presented.

### **Third Year**

#### **Introduction to Clinical Obstetrics and Gynecology**

Combines theoretical instruction with clinical experience in obstetrics and gynecology. The clerkship will last for six weeks. There will be a one-day orientation lecture in the Lying-In Hospital the first day of the rotation. During the remainder of the clerkship, students will be assigned to obstetrical and gynecological teams to serve as clinical assistants. They will have three weeks experience in obstetrics and three weeks in gynecology. A portion of the student pool will be assigned to the North Shore University Hospital for the six-week clerkship. In addition to the clinical clerkship at the Lying-In Hospital and the North Shore University Hospital, each day students will have a formal session taught by the teaching staff of these two institutions. The session will cover the core curriculum in obstetrics and gynecology.

#### *Departmental Staff Conferences and Rounds*

A weekly staff conference is held on Monday from 4 to 5 p.m.

### **Elective Options**

A full program of fourth-year electives is offered in the department, including advanced clinical training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in ongoing laboratory research. These electives are listed and described in detail in the *Catalog of Electives*.

## **Ophthalmology**

### **Professors of Ophthalmology**

D. J. Coleman, John Milton McLean Professor of Ophthalmology, chairman

### **Clinical Professor of Ophthalmology**

D. M. Shafer

### **Clinical Associate Professors of Ophthalmology**

T. D. Cherubini, B. Curtin, L. S. Harris, R. Harrison, D. B. Karlin, H. Katzin, I. H. Kaufman, P. L. Laino, H. A. Lincoff, A. Mamelok, W. Peretz, A. I. Turtz, S. Veronneau, P. H. Zweifach

### **Clinical Assistant Professors of Ophthalmology**

H. J. Agatston, S. Bloomfield, G. M. Branower, E. F. Constantine, A. D. King, M. A. Lieberman, H.-Z. Lin, R. Muchnick, P. Odell, S. Packer, J. S. Schutz, M. Smithline, E. E. Weise, A. Wendling

### **Instructors in Ophthalmology**

J. Castellano, T. Kulyk

### **Clinical Instructors in Ophthalmology**

D. Aronian, L. C. Gordonson, Y. Kahanowicz, D. Pearce

**Research Associate in Ophthalmology**

G. J. Simoni

**Research Fellow in Ophthalmology**

W. J. C. Reifer

**Fellows in Ophthalmology**

R. Braunstein, T. P. Sullivan

**Lecturer in Ophthalmology**

M. E. Smith

**Required Courses**

**Second Year**

Instruction in ophthalmology begins as part of physical diagnosis instruction in the third trimester of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

**Third Year**

During the third year, the class is divided into eight groups that participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology. The entire series offers instruction in the most frequently encountered diseases of the eye.

**Elective Options**

**Fourth Year**

Two fourth-year students per module can participate in the elective period. During their modules, they examine patients hospitalized for surgery and review the cases with attending ophthalmologists. The student then observes the actual surgery and attends teaching rounds with the resident and attending staff who present interesting and problem cases for detailed review and discussion.

**Otorhinolaryngology**

**Professor of Otorhinolaryngology**

J. A. Moore, chairman

**Clinical Professor of Otorhinolaryngology**

J. R. Williams

**Clinical Associate Professors of Otorhinolaryngology**

W. M. Glass, R. W. Selfe

**Clinical Assistant Professors of Otorhinolaryngology**

B. Campbell, L. Dropkin, W. F. Flynn, S. Howe, K. F. Mattucci, N. J. Pastorek, W. F. Robbett, W. S. Schley, J. H. Seward

**Instructors in Otorhinolaryngology**

Y. Ahmadi, D. Cang Cuesta, S. Kahn, M. Katona, F. Lavine

**Clinical Instructors in Otorhinolaryngology**

E. Greenfield, I. Kho

**Required Courses**

**Second Year**

Instruction begins in the third term of the second year. The class is divided into two groups. One session of one hour is provided in otorhinolaryngologic problems as part of the course in physical diagnosis.

**Third Year**

The third year is divided into four terms. In each term, eleven or twelve students spend five or six periods of two hours each in the otorhinolaryngology outpatient clinic. These sessions are held on Tuesday afternoons from 1-3 p.m. in the outpatient clinic. Students gain experience with patients who are being considered for surgical therapy. They do the workup on the patients, taking full histories and performing physical examinations on the new patients to whom they are assigned. The workup on each patient is presented to an attending otorhinolaryngologist. Informal lectures are given at the beginning of the two-hour afternoon sessions. To supplement these informal lectures, interesting cases are selected and presented to the group for examination and informal discussion. Ambulatory-care patients and inpatients are used in the case presentations.

**Elective Options**

**Fourth Year**

**Clinical Clerkships in Otorhinolaryngology** are offered to students in the fourth year in modules of one or two. Additional modules may be taken under special circumstances. Full-time attendance is desirable. However, half-time attendance may be arranged at the discretion of the department head. During the clerkship, the student's time is divided between duty on the ward, in the otorhinolaryngology outpatient clinic and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff and has the opportunity to observe various otorhinolaryngologic surgical procedures in the operating room. The student also attends the weekly and monthly conferences. Prerequisite: courses in the second and third years. The advisers to students planning this fourth-year elective are Dr. James A. Moore and Dr. Robert W. Selfe.

# Pathology

## Professors of Pathology

J. T. Ellis, chairman; C. G. Becker, P. J. Fitzgerald, G. F. Gray, R. C. Mellors, C. R. Minick, G. E. Murphy, G. C. Poppensiek, C. A. Santos-Buch, L. Thomas

## Clinical Professors of Pathology

J. W. Dougherty, S. Gross, A. Kellner, E. E. Kramer, J. F. Seybolt

## Adjunct Professors of Pathology

J. B. Brierly, R. J. Perper, L. H. Sobin

## Associate Professors of Pathology

D. R. Alonso, P. G. Bullough, E. L. Gottfried, S. I. Hajdu, A. G. Huvos, P. H. Lieberman, M. R. Melamed, P. Rosen, L. B. Senterfit, S. S. Sternberg, J. F. Woodruff, J. M. Woodruff

## Associate Clinical Professors of Pathology

E. P. Bassett, E. L. Coffey, J. A. Mouradian, M. Oka, M. Susin, C. W. Watson

## Clinical Associate Professors of Pathology

A. S. Carlson, C. K. Petito, A. M. Prince, T. Robertsen, C. F. W. Wolf

## Assistant Professors of Pathology

R. S. K. Chaganti, A. Cubilla, R. A. Erlandson, B. C. Horten, H. Kahn, M. King, L. R. Sharer, T. Sun

## Instructors in Pathology

M. L. Alonso, J. Elias, A. Firpo-Betancourt, G. Gottlieb, D. G. Rawlinson

## Clinical Associates in Pathology

T. Babiak, S. Chasko, Q. Chess, M. Collins, S. Ettinghausen, T. A. Godwin, M. Magid, P. Peterson, D. J. Schechter, D. Spriggs, A. Strupp, H. Ueno, J. Vogel

## Research Associates in Pathology

T. Dubin, D. Hajjar, L. Ho, S. Huber, L. Job, M. M. Litrenta

## Associate in Pathology

J. Bancroft

## Facilities

The Department of Pathology occupies two floors of the central part of the college building, located above the library and in immediate contact with the hospital, the autopsy room being in the connecting wing between college and hospital. The teaching is largely concentrated on the third floor where the

autopsy room and demonstration room for pathological anatomy are located. Classrooms for microscopy are situated on the second floor. The third and fourth floors also contain unit laboratories for staff members and graduate students and for technical preparation. Animal quarters and facilities for experimental work are on the fifth and seventh floors.

The postmortem service of The New York Hospital, Hospital for Special Surgery, Rockefeller Hospital, and the Westchester Division affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies at The New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

## Required Courses

### Second Year

**General and Systemic Pathology** First and second terms of the second year. Professor Ellis and staff.

Gross and histological lesions are studied and their pathogenesis and correlation with disturbed function considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with cell injury, inflammation, and repairs. It then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology, including an introduction to neuropathology.

**Clinical Pathological Conferences** These conferences are held in cooperation with the staffs of the clinical departments of the hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

## Elective Courses

### Second Year

During the spring term, time is used for elective courses in pathology for research or for independent study. Electives are offered in postmortem pathology, cardiovascular pathology, cytopathology, forensic pathology, pathology of the gastrointestinal tract, laboratory medicine, neuropathology, oral pathology, pediatric pathology, pathology of renal disease, and pathology in surgery.

### Fourth Year

The following electives are offered: surgical pathology, cytology, forensic pathology, musculoskeletal pathology, neuropathology, pediatric pathology, obstetrical and gynecological pathology, renal pathology, cardiac pathology, anatomic pathology, computer applications in pathology, and laboratory medicine. Please see the *Catalogue of Electives* for description of courses, prerequisites, times, and instructors.

## Pediatrics

### Professors of Pediatrics

W. W. McCrory, chairman; P. A. McF. Auld, K. H. Ehlers, M. A. Engle, Stavros S. Niarchos Professor of Pediatric Cardiology, R. A. Good, M. W. Hilgartner, J. Kochen, A. R. Levin, F. Lifshitz, D. R. Miller, M. L. Murphy, M. I. New, Harold and Percy Uris Professor of Pediatric Endocrinology and Metabolism, S. F. Redo (surgery), T. Shapiro (psychiatry), M. Silverberg, C. T. C. Tan

### Clinical Professors of Pediatrics

L. I. Ehrlich, J. L. German, L. Salk, A. L. Scherzer

### Adjunct Professor of Pediatrics

S. Ulick

### Associate Professors of Pediatrics

P. W. Brill (radiology), Z. E. Currimbhoy, J. Graziano (pharmacology), R. G. Harper, L. Helson, A. N. Krauss, L. S. Levine, W. N. Lim, R. J. O'Reilly, G. Rosen, E. M. Smithwick, N. W. Sternberg, S. Wachtel (immunology), R. Wapnir (biochemistry)

### Associate Professors of Clinical Pediatrics

J. G. Davis, L. Katkin, R. I. Lopez

### Clinical Associate Professors of Pediatrics

F. H. Allen, Jr., B. S. Ashe, R. R. Bass, C. H. Bauer, M. Boris, M. C. Buchanan, B. S. Caterinichio, L. Charash, J. G. Davis, B. L. Gemson, D. K. Goldberg, R. M. Greenwald, M. T. Grossi, A. C. Hoffman, L. B. Lowe, Jr. (dermatology), I. H. Mauss, V. C. Mitty, K. Neumann, R. F. Notterman, M. Orange, H. deC. Peterson (neurology), V. Pomeranz, I. Rappaport, L. Rosenzweig, M. Shibuya, D. I. Smith, G. E. Solomon (neurology), S. S. Zipser

### Adjunct Associate Professor of Pediatrics

H. Koenig

### Assistant Professors of Pediatrics

J. C. Allen (neurology), T. B. Boland (psychology), A. E. Brown, M. Chandra, F. Daum, M. M. Di Die, P. Fort, W. W. Frayer, J. Friedman, R. J. Garutti, F. Ghavimi, P. J. Giardina, R. W. Grady, A. Grassi, H. Huebner (psychiatry), M. R. Kaplan, N. Kardon, P. C. Klass (genetics), A. A. Klein, U. Lavy, D. J. Louick (psychology), M. McVicar, A. J. Markenson, A. Marks, P. A. Meyers, S. Oberfield, J. E. O'Loughlin, S. Pang, B. E. Peterson, M. J. Reitman, S. Schechner, E. T. Schubert, M. Sherman, C. G. Sia, M. Sorell, L. J. Steiner, P. G. Steinherz, S. Teichberg, T. A. Vandersall, P. H. Winchester

### Clinical Assistant Professors of Pediatrics

C. Abitbol, P. Axel, O. E. Billo, R. M. Brilliant, J. L.

Brown, W. R. Brown, Jr., W. T. Carpenter, Jr., J. N. De Hoff, A. P. De Mayo, J. H. Dobken, J. G. Easton, G. T. Edis, J. E. Fenner, Z. Fischbarg, D. B. Gareen, M. Gilbert, J. Goldstein, A. Greenberg, M. Harwin, S. Isaacson, P. R. Joseph, S. Kaplan, C. Lafer, M. Levy, R. H. Lieberman, E. McCarthy, F. N. Medici, A. J. Mistretta, A. P. Nicosia, S. D. Olicker, D. M. Pietrucha, O. E. Pitkin, L. Pollack, S. E. Read, R. H. Reiman, M. S. Rosh, A. J. Salisbury, J. S. Schlessel, W. T. Seed, J. Shein, M. A. Shinefield, M. Small, J. Soloway, G. M. Spielman, J. Steckelman, R. Stein, J. P. Viscarti, R. Waldbaum, B. X. Weinstein, H. I. Wolfe

### Visiting Assistant Professor of Pediatrics

H. Chang

### Visiting Assistant Professor of Clinical Pediatrics

M. Dumic

### Instructors in Pediatrics

B. Altura, A. C. Giardina, C. Kierney, P. Landau, C. H. Miller (genetics), M. Olson, G. Silverberg (genetics)

### Clinical Instructors in Pediatrics

S. Alam, P. M. Baker, N. Berkowitz, H. E. Bradley, M. K. Chiu, G. Cohen, S. B. Cruz, J. Fagin, E. F. Gould, A. L. Haber, M. S. Heitler, A. C. Holtzman, P. Inguagiato, H. Isenberg, A. Jason, T. Javai, R. L. Kandell, M. Khadari, A. Laciou-Petrucelli, S. LaSala, G. Matthew, C. Ramos-Bonan, M. Ross, C. Sekaran, D. R. Skog, B. S. Slater, M. A. Stevens, M. W. Tsai, E. B. Visconti, S. Weindorf, M. Zadik, D. Zigelman, H. Zirin

### Research Associates in Pediatrics

S. Baker, B. Granich, M. Land, G. S. Ross

### Clinical Associates in Pediatrics

B. L. Allen, H. J. Birenbaum, R. E. Caprio, B. A. Dash, M. H. Dinner, A. E. Dyson, M. P. Fitzgerald, L. E. Friedman, F. Greig, R. A. Kahn, M. S. Katzenstein, E. K. McDivitt, J. L. McManamy, J. F. Markowitz, F. A. Nolan, N. A. Pier, M. Pugliese, B. Rettet, L. Salzman, J. Triegel

### Fellows in Pediatrics

A. Ahmed, B. Alper, D. Banker, F. Barash, M. M. Berant, J. Brochstein, J. B. Bussell, S. C. Carlisle, K. W. Chan, J. I. Espinoza, R. Fried, W. M. Gerba, K. Haines, C. H. Hancock, E. Kaelber, P. Kaur, E. Khuri, B. Kohn, S. J. Korn, A. Kovatch, J. Kulpa, U. Kuhnle, E. F. LaGamma, M. Lewin, K. Lieberman, L. Linday, F. Lorenzen, S. Miller, P. Perinchief, N. A. Pawlowski, R. Rappaport, L. Reisman, M. Reitman, N. Sonino, V. Sommer, H. S. Starkman, R. L. Stavis, E. Stoner, C. Suarez, J. A. Szatkowski, A. Wachtel, B. Weissman

### Lecturer in Pediatrics

Y. Khakoo

## Required Clerkship

### Third Year

The major undergraduate teaching effort of the Department of Pediatrics occurs in the third year in a period of six weeks, a required program provides a core of pediatrics, as an overview of the subject is presented. The year is divided into six clerkships. During the pediatric clerkship, the student is assigned either to The New York Hospital, the North Shore University Hospital, or the Lenox Hill Hospital Pediatric Service. During that time, students are assigned patients during an inpatient experience and also spend approximately half of their time in an ambulatory setting dealing with the care of the outpatient pediatric population. Throughout the rotation, the students also rotate through the pediatric emergency room and learn to deal with pediatric crises. Both general pediatric problems and those of interest to the subspecialties are encountered when the student is on the inpatient as well as during the outpatient rotation. During their assignments in pediatrics, they spend time dealing with the management of the neonate in the Intensive Care Unit. During this third-year experience, the student acts as a clinical clerk. Each admission is assigned to a student who does a history and physical. In the Outpatient Department, the students invariably meet the family as the first contact physician and present the cases to the attending physician. The students are responsible for a history, physical examination, and a formulation for a differential diagnosis. The plan for the patient is developed by the student and after presentation to the senior resident and attending physician, decisions are made as to appropriate care and disposition of the patient. Students are expected to follow their patients closely during the admission as well as during the outpatient rotation and write pertinent progress notes. A number of formal teaching seminars are scheduled highlighting various aspects of general pediatrics as well as its subspecialties. In addition, the student participates in daily attending rounds and case discussions. The regularly scheduled grand rounds and professorial rounds for the Department of Pediatrics are part of the curriculum for the third-year student. The students are assigned to a tutor in groups of six and are responsible for formal presentations to this tutor. The tutors are members of the full-time staff or the attending staff of the department.

## Elective Options

### First Year

Elective courses are listed in the *Catalog of Electives*.

### Second Year

Elective courses are listed in the *Catalog of Electives*.

### Fourth Year

The department offers a variety of clinical pediatric electives encompassing general and subspecialty clinic outpatient activities at The New York Hospital, and combined inpatient and outpatient activities at The New York Hospital, Hospital for Special Surgery,

Memorial Hospital, and North Shore University Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis. Elective courses are listed in the *Catalog of Electives*.

## Pharmacology

### Professors of Pharmacology

W. F. Riker, Jr., Revlon Pharmaceutical Professor of Pharmacology, chairman; W. Y. Chan, T. Cooper, R. W. Houde (medicine), C. Inturrisi, A. Kappas (medicine), R. Levi, M. Okamoto, M. M. Reidenberg, A. Van Poznak (anesthesiology)

### Adjunct Professors of Pharmacology

J. J. Burns, E. J. Cafruny

### Associate Professors of Pharmacology

K. E. Foley (neurology), H. Kutt (neurology), A. B. Rifkind

### Clinical Associate Professor of Pharmacology

C. A. Shamoian

### Adjunct Associate Professors of Pharmacology

B. A. Berkowitz, E. Grunberg, A. Sastre

### Visiting Associate Professor of Pharmacology

M. Levy

### Assistant Professors of Pharmacology

T. Baker, A. Blumberg (surgery), D. E. Drayer, J. Franklin, Jr. (medicine), R. Grady (pediatrics), R. Kaiko, G. Pasternak (neurology), H. Szeto

### Adjunct Assistant Professors of Pharmacology

K. E. Anderson, D. M. Benjamin, A. Blume, R. Lahita

### Instructors in Pharmacology

V. P. Gotz (pharmacy), B. Jones, J. Romankiewicz (pharmacy)

### Research Associates in Pharmacology

P. Hinman, C.-H. Lee, B. Lorenzo, D. Parikh

### Fellows in Pharmacology

L. Lindsay, T. F. Myers, J. Powell

### Visiting Fellow in Pharmacology

K. Kimura

### Lecturer in Pharmacology

H. S. Carlin

## Required Course

### Second Year

**Basic Course** Lectures, demonstrations, conferences, and clinical sessions. A major aim is to teach how selectivity of drug action is determined by pharmacologic principles. Emphasis is placed on the application of pharmacologic principles to the understanding and evaluation of drug actions. In turn, the student is provided with a scientific basis for a rational approach to drug therapy. Prototype drugs considered systematically serve to illustrate the pharmacologic characteristics of the important drug classes.

### Elective Options

#### Second and Fourth Years

In both the second- and fourth-year elective periods, opportunities are available to pursue supervised laboratory, course work and clinical studies in neuro-pharmacology, cardiovascular pharmacology, endocrine pharmacology, renal pharmacology, clinical pharmacology, drug dependency, analgesic pharmacology, drug metabolism, and cancer chemotherapy. A course in molecular pharmacology is offered in the third trimester in alternate years (see *Catalog of Electives*).

## Physiology and Biophysics

### Professors of Physiology and Biophysics

E. E. Windhager, Maxwell M. Upson Professor of Physiology and Biophysics, chairman; B. Grafstein, R. L. Greif, E. Heinz, T. Maack

### Clinical Professor of Physiology and Biophysics

W. A. Briscoe

### Associate Professors of Physiology and Biophysics

O. Andersen, S. Baruch, C. Fell, D. Gardner, A. Taylor

### Clinical Associate Professors of Physiology and Biophysics

A. R. Fuchs (reproductive biology), T. K. C. King (medicine), A. N. Krauss (pediatrics)

### Assistant Professors of Physiology and Biophysics

T. Colatsky, G. Frindt, C. Lee, C. Liebow, I. McQuarrie

### Clinical Assistant Professor of Physiology and Biophysics

J. E. Franklin (medicine)

### Adjunct Assistant Professor of Physiology and Biophysics

W. A. Kachadorian

## Research Associate in Physiology and Biophysics

N. Lanners

### Postdoctoral Associates in Physiology and Biophysics

B. Gilbert, M. Lorenzen

### Research Fellows in Physiology and Biophysics

P. Friedman, V. Pappoe, J. Swanson, R. White

## Required Courses

### First Year

**Second term.** Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood circulation, respiration, and gastrointestinal function.

**Third term.** Laboratory work on all phases of physiology and biophysics, including applications of radioisotope methods to the study of body function. Conferences are devoted largely to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and the kidney. Laboratory exercises one full day each week.

### Elective Options

A seminar course in topics in biophysics and one in fluid and electrolyte balance are offered to selected students during their second-year elective time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and fourth-year elective periods, and for members of any class during summer vacation periods, will be arranged on consultation with members of the department.

Instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy and biochemistry. The second term is devoted to lectures and conferences. The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of

various departments in the Medical College and The New York Hospital.

## Psychiatry

### Professors of Psychiatry

R. Michels, Barklie McKee Henry Professor of Psychiatry, chairman; A. Cooper, W. A. Frosch, S. L. Gilman (history), I. Glick, S. Goldstone (psychology), L. E. Hinkle, Jr. (medicine), J. C. B. Holland, H. Hunt (psychology), O. Kernberg, R. N. Kohl, W. T. Lhamon, D. J. Reis, T. Shapiro, G. P. Smith (behavioral science), J. A. Talbot

### Clinical Professors of Psychiatry

S. Asch, E. Carlson, A. C. Carr (psychology), H. E. Daniells, S. L. Feder, S. Gaylin, J. F. Masterson, Jr., J. Quen, L. Salk (psychology), R. Schafer (psychology), M. Viederman

### Adjunct Professors of Psychiatry

N. Dain (history), J. T. English, W. Kass (psychology), S. Rettig (psychology), W. N. Schoenfeld (psychology)

### Visiting Professor of Psychiatry

R. L. Shapiro

### Associate Professors of Psychiatry

M. D. Clayton (psychology), J. L. Curtis, J. G. Gibbs, Jr., M. E. Hertzog, P. Kernberg, F. Schwartz (psychology), J. A. Sechzer (psychology), D. Stern, P. E. Stokes, T. A. Vandersall

### Clinical Associate Professors of Psychiatry

E. T. Adelson, J. M. Astrachan, H. H. Barten, S. Bauer, H. R. Blank, H. Bolocan, J. W. Brown, E. H. Church, J. F. Clarkin (psychology), E. G. Dabbs, E. Dulit, H. Fensterheim (psychology), A. J. Frances, S. Goldensohn, I. B. Harrison, L. J. Hatterer, T. F. Henley, P. Janulis, F. D. Kane, S. E. Kapel, H. S. Kaplan, A. Kiev, B. Landis (psychology), L. G. Laufer, A. B. Lewis, E. Y. Liang, E. L. Lipton, L. Loeb, J. McCartney, R. C. Mastrovito, W. Myers, Y. Nir, E. R. Ranzenhofer, R. A. Ravich, M. L. Schoelly, J. Schomer, M. Selzer, C. A. Shamoian, J. H. Spencer, Jr., T. G. Stauffer, S. P. Stein, M. H. Stone, L. R. Straub, J. D. Sullivan, J. S. Tamerin, A. D. Weiner, P. G. Wilson

### Adjunct Associate Professors of Psychiatry

S. Bogoch, F. F. Flach, A. A. McLean, W. Sencer, R. K. Westheimer (psychology), C. Winkelstein

### Visiting Clinical Associate Professors of Psychiatry

S. Grolnick, B. L. Serwer (psychology)

### Assistant Professors of Psychiatry

G. S. Alexopoulos, B. Ballard, T. Boland (psychology),

R. E. Breslow, J. F. Crow, W. Eckerd, R. Frances, R. C. Friedman, M. M. Gilmore, R. K. Goodman (social work), R. A. Gross, N. S. Hakusa (social work), D. Harlam, S. Holzman, H. F. Huebner, H. D. Kibel, J. H. Kocsis, H. Koenigsberg, J. H. Liebowitz, A. W. Loranger (psychology), D. J. Louick (psychology), M. J. Massie, M. R. Mattson, V. Mei-tal, B. S. Meyers, S. G. Mortati, J. E. Ninninger, H. G. Nurnberg, J. M. Oldham, H. Oskarsson, H. Owens, S. Perry III, C. R. Pfeffer, L. H. Rockland, A. Rothstein (psychology), L. M. Russakoff, M. H. Sacks, E. E. Seelye, M. Sherman, S. E. Stearns, J. P. Teusink

### Clinical Assistant Professors of Psychiatry

A. Anderson, G. A. Anderson, R. Ascher, R. D. Baker, G. G. Ball (psychology), J. E. Baxter, M. Beldoch (psychology), M. Blitz, J. Blum (psychology), M. Breitman (psychology), P. M. Bromberg (psychology), J. Bronner-Huszar, B. Buchsbaum (psychology), C. J. Clark, J. Cohler (psychology), H. N. Cooper, L. B. de Alvarado, A. K. Delgado, M. V. Di Gangi, T. L. Doyle, Jr., S. C. Draghi, A. Dupuis, S. Edelson, M. S. Eisenberg, R. B. Fath, D. Feinstein, S. Feinstein, R. Fishman (psychology), M. M. Fleetwood, M. Fredland, E. D. Freeman, L. Friedman, M. P. Fogel, V. Fromberg, R. I. Ganeles, E. H. Gerchick, A. B. Gistrack, R. Glass, H. I. Glazer, J. G. Gorzynski, R. S. Grayson, S. Gruber, J. A. Haycox, D. N. Hertz, M. Hill, R. K. Hill, R. Hirsch, A. Issacharoff, J. W. Johnson, A. I. Kaplan, N. Kaplan, M. G. Karmason, N. P. Karush, J. Katz, M. D. Kerr, H. A. Kim, R. Lax (psychology), N. Lebowitz, R. E. Lee, H. J. Lefkowitz, D. Y. Levine, E. Levy, B. A. Liberman, D. Lieberman, S. Lituchy, J. N. Loomis, W. L. Maden, A. S. Maerov, R. B. Millman, L. Moss, D. B. Nagle, A. D. Nahas, J. Nahmias, W. Nathan, E. Nersessian, A. Newman, R. Nickerson, H. Nunberg, J. D. O'Brien, B. E. O'Connell, R. A. O'Connell, A. Offit, S. Orloff, E. Ortof (psychology), W. Overholser, J. M. Perman, V. Piskacek, M. Radomisl (psychology), S. Reich, M. M. Rick, J. B. Rohrlich, M. G. Rothenberg, M. Rubenstein, G. Rusk, G. Samios, J. E. Schultz, S. W. Seides, D. Shapiro, S. Sheinkman, M. Spital, I. Sternschein, J. J. Stine, N. Straker, R. Suchinsky, J. Terry, S. G. Traube, K. F. Tucker, M. J. Weich, W. M. Weisner, J. H. Weiss (psychology), D. Weitzner, M. Winestine (psychology), M. H. Witkin (psychology), M. Zimmerman (psychology)

### Adjunct Assistant Professors of Psychiatry

J. Berg, A. R. Broden, H. Davidoff-Hirsch, Z. E. Dzielanowska, S. Eisenman, S. Feder, A. K. Frankel, A. N. Gabriel, M. Hart, H. D. Kachalsky, I. Labourdette, A. B. Landolt, R. Liebert, B. P. Lipton, E. Loutsch, J. C. Mayer, I. Mohacsy, H. H. Moorhead, G. Nachumi, E. S. Ninninger, S. Pazner, E. L. Rabiner, D. Robbins, W. Rosenthal, C. Schmais, E. W. Shelden, B. Singer, D. E. Sobel, A. Tornuscuolo, G. M. Warner, N. Weiss

### Visiting Assistant Professor of Psychiatry

K. R. S. Scherzer (psychology)

### Instructors in Psychiatry

A. R. Abright, R. Austrian (psychology), J. Botman,



N. Brockner, R. B. Brower, D. R. Budde, K. Burten, W. Burten, J. Chapin, E. Feuer, S. Greenberg, P. Gusmorino, W. Harrison, T. P. Kalman, D. M. Kaminsky, R. Kaplan, K. Kirstein, L. B. LaFarge, Z. Lazar (psychology), K. Lepp, A. Levi, J. Levy, A. Loterman, J. Luke, A. Malter, M. Miamoto, J. L. Moodie, J. T. Patten, R. S. Pynoos, T. J. Schreiber, S. Sinha, A. Sondheimer, J. E. Sperber, M. A. Spiegel, R. Suh, S. Trutt, S. I. Tutnauer, W. B. Van Vort, A. A. Wasfi, B. H. Weston, V. W. Yandow, R. C. Young

### Clinical Instructors in Psychiatry

V. Alcena, R. D. Bruun, J. B. Bukberg, T. A. Butler, J. J. Cavanaugh, R. O. Cohen (psychology), R. P. Cohen, S. Constantinou, M. W. Crosby, E. R. DeBell, C. Diamond, C. Diaz-Matos, R. J. Doherty (dentistry), E. Einbinder, A. Eisen, K. Falk, M. Fisher (psychology), B. L. Flye (psychology), A. W. Forrest (ophthalmology), S. Golub, S. L. Gordon (otorhinolaryngology), R. B. Granet, J. E. Gross, S. Harris, A. M. Hilmi (medicine), J. T. Howard, Jr. (obstetrics and gynecology), G. D. Igel, R. Kaplan, S. B. Kardon, G. Keating (anesthesiology), R. Klein, R. G. Kopff, Jr., S. Kramer, M. S. Kropp, J. R. Lachenmeyer (psychology), M. M. Lee (anesthesiology), P. A. Levi, M. Levine, G. Levitt, K. J. Lichtman, A. Looker, R. Marantz, J. Maze, T. Meehan, B. Meisel (obstetrics and gynecology), H. Mendelson, C. J. Morosini (medicine), T. W. Murphy (anesthesiology), L. Najarian, S. Nevins (otorhinolaryngology), L. D. Orvieto (dentistry), E. L. Parsons, M. Perelman (psychology), M. M. Peskin, A. E. Radomisl, S. D. Raw, E. A. Raymond (surgery), C. A. Reiner (psychology), J. M. Ross (psychology), E. B. Rowntree, A. Russo, M. B. Saul (dentistry), J. Schein, A. H. Schore, M. Schwab, S. Severino, M. K. Shear, Z. Skolnik, N. Slavinska-Holy (psychology), Y. Sokal, H. Stern, R. Symons (psychology), L. Tallal, M. Tamaroff (psychology), J. Tolchin, T. Van Allen, G. H. Vintas, B. R. Vollhardt, M. Wainston, A. B. Watchel, J. Weiss (psychology)

### Research Associates in Psychiatry

R. Barnett, M. Farrell, P. Jacobs, G. Ross, E. Sharpless, G. Wasserman, J. Weiss

### Senior Teaching Associate in Psychiatry

E. Heffner

### Teaching Associates in Psychiatry

E. Hirsch, A. Rosenman

### Fellows in Psychiatry

H. K. Abramowicz (child), R. Abrams, J. B. Amberson, J. S. Antrobus (psychology), E. Archibald (psychology), E. L. Auchincloss, A. Ballas (child), J. K. Belsky, A. U. Beltrami (child), W. Bernhard (psychology), J. Bloomgarten (psychology), R. Bobry (education), M. Bogdanoff (psychology), J. J. Boronow, R. D. Brand, S. Brandt, R. H. Brent, R. Brescia, A. Brody, B. Brooks (psychology), P. Brown (psychology), D. F. Burdman, M. Carsky-Kennedy (psychology), R. H. Carach (child), J. Cohen (psychology), W. J. Crowley, S. Cutler, M. M. Da Costa, L. De Milio, S. Doctors (psy-

chology), J. Dunietz, C. M. Espino (psychology), R. Fischer (psychology), L. F. Ford (child), R. Fort, B. G. Friedman (social work), E. C. Frischauf (child), J. Gibbons (psychology), H. Gilman, K. J. Gilmore, D. Goldfarb, K. Gordon, A. Greenberg (psychology), G. Greenberg (psychology), J. M. Gregory (psychology), L. T. Gries (psychology), A. J. Guttmann (child), D. B. Hammond, N. Hartman, C. Haslett (psychology), D. Heidecorn (psychology), J. H. Heiligenstein, S. W. Hurt (psychology), P. S. Ingber, A. M. Jacobson (social work), A. B. Kane (social work), N. Karabakis, S. Karasu (child), C. A. Kaufman, E. H. Kisch (child), M. Klein, H. S. Koplewicz, S. Korn (psychology), N. R. Krasa (psychology), J. L. Ladner (psychology), J. Lanoil (psychology), A. Lee (psychology), M. H. Levin, A. Levi (psychology), N. Lewis, O. Lewis, J. Lovett (psychology), J. J. Lucas, Jr., M. P. Luber, D. Luck (psychology), R. McCormick (psychology), K. H. Magrath (psychology), K. Marisak (psychology), D. L. Mednick, E. Mendelsohn (psychology), B. Meyers (social work), R. Moscowitz, P. Noel (psychology), L. Osterweil (psychology), W. Owen, G. Pazdral, D. Perlick (psychology), D. Piazza (psychology), L. Prusnoffsky, S. D. Raw (social work), M. G. Rudden, R. Salwen (psychology), H. Sands, D. Sawyer, M. L. Schlenoff (social work), C. G. Schmidt (child), L. J. Semlitz, E. Schwager (psychology), M. Schwartz, M. Silk (social work), K. J. Simansky, J. A. Sweeney (psychology), W. E. Spear (psychology), N. S. Talon, C. A. Taylor, M. Thompson, R. Tobias (psychology), M. Tonkin (psychology), D. Trimman (psychology), E. Tulis (psychology), D. Van der Heide, L. Vogel, L. G. Wallhauser (nursing), D. Weber, N. Weiser, T. Wikstrom, R. A. Williamson

### Research Fellows in Psychiatry

R. A. Hollander, L. Matin (psychology), E. Triana

### Research Assistants in Psychiatry

L. Brown, L. Levinson (child), C. B. Mermelstein

### Lecturers in Psychiatry

W. Christ (social work), R. Corn (social work), S. Fine (therapeutic activities), E. Goldstein (social work), H. Justman (social work), H. Lubin (social work), A. Novick (social work), A. Pappi (social work), D. A. Piegrome (therapeutic activities), E. T. Rosen (social work), J. Rosenbloom (social work), W. H. Tarplin (social work), F. D. Thurston (social work), D. E. Weinberg (social work)

### Required Courses

#### First Year, First Semester

**Emotional Aspects of Medical Illness** Small groups of eight students and two faculty members interview and discuss medically ill patients of varied ages. The emphasis is on understanding the response to illness and hospitalization at different stages of the life cycle, how these responses are affected by the interaction of patient and physician, and some of the ways the physician is affected by his or her patient. Basic psychiatric concepts are taught in relation to clinical issues.

### First Year, Third Trimester

**Human Sexuality** Lecture-demonstrations with audiovisual presentations discuss the anatomy, physiology, and psychology of normal and abnormal human sexual response.

**Psychoneurobiology** Members of the Departments of Psychiatry and Neurology will present lecture-demonstrations on the following topics: imprinting and attachment; language; mood and emotion; appetitive behavior (feeding and its disorders); thinking; consciousness and hemispheric dominance; memory. The phenomena discussed provide a scientific basis for understanding human behavior in clinical settings.

### Second Year

**Psychopathology** The major psychiatric disorders are discussed, emphasizing clinical features, etiology, diagnosis, and treatment. After each lecture, groups of seven students meet with two faculty members on the wards of Payne Whitney Clinic to discuss the lecture topic and to interview patients. Students are helped to achieve an understanding of mental illness and to develop their observational, diagnostic, and interview skills.

### Third Year

**Clinical Psychiatry Clerkship** Students are assigned for six weeks to special teaching units either at the Payne Whitney Clinic or at the Westchester Division of The New York Hospital. Clerks are given the opportunity to assume major responsibility for the evaluation and treatment of selected inpatients under the supervision of full-time faculty and senior residents. Students also work with the families of inpatients and participate in all ward activities. Outpatient experiences with adults and children are also provided. Seminar series, tutorials, readings and videotapes of typical psychiatric syndromes supplement the direct clinical experiences.

## Elective Options

### First and Second Years

Electives are available in many areas of psychiatry, including research, patient evaluation and treatment, family studies, group dynamics, death and dying, psychobiology, psychiatric principles of general and special medical care, and psychoanalysis. In selected instances, a student may treat a psychiatric patient, with supervision, for one to four years. Some stipends are available for summer study. A full listing is available in the *Catalog of Electives*.

**Summer Fellowships** A wide variety of NIMH-supported summer fellowships in research are available. They include participation in ongoing faculty research as well as special projects specifically designed for medical students that can be completed in a ten-week period. Projects have ranged from the study of neurophysiology of exploratory behavior in rats to studies of the families of dialysis patients

and of patients who do not follow medical regimens. Fellowships are available in inpatient and outpatient settings in many areas of the medical center. Details are available at the office of the Director of Training. Special programs are available.

### Fourth Year

Electives and subinternships in inpatient and outpatient psychiatry—both adult and child—offer extensive opportunities to learn diagnosis and treatment of psychiatric patients by assuming direct responsibility, under supervision, for patient care. Electives are also available in other aspects of psychiatry: research, liaison, social and community psychiatry, long-term psychotherapy, etc. A special effort has been made to provide relevant clinical psychiatric electives in pediatrics, surgery, obstetrics and gynecology, oncology, and internal medicine for students who do not plan a career in psychiatry. Elective sites include Payne Whitney Clinic, Westchester Division, Memorial Hospital, North Shore University Hospital, as well as the many sites of liaison activity on nonpsychiatric services within The New York Hospital. Details are available at the office of the Director of Training.

## Public Health

### Professors of Public Health

G. G. Reader, Livingston Farrand Professor of Public Health, chairman; F. Daniels, Jr. (dermatology), R. L. Engle, Jr., M. E. W. Goss (sociology), H. S. Ruchlin (economics), D. Schottenfeld

### Clinical Professors of Public Health

E. J. Cassell, L. Heimoff, E. G. McCarthy, Jr., V. Miké (biostatistics)

### Adjunct Professors of Public Health

B. J. Flehinger (biostatistics), P. J. Imperato, W. R. Lynn (health systems analysis), A. L. Scherzer

### Visiting Professor of Public Health

P. D. Marsden

### Associate Professors of Public Health

M. H. Alderman, L. M. Drusin, T. C. Jones

### Clinical Associate Professors of Public Health

C. A. Berntsen, Jr., S. A. Howe, F. T. Kirkham, Jr., D. G. Miller, R. B. Millman, D. Schwartz (nursing), F. A. Seixas, A. Ullmann (social work)

### Adjunct Associate Professors of Public Health

M. D. Hyman, G. Palevsky (engineering)

### Assistant Professors of Public Health

J. F. Haas, R. C. Rinker, G. I. Wadler, A. G. Zaubler  
(biostatistics)

### Clinical Assistant Professors of Public Health

G. Bondi, R. L. Braham, G. L. Hobby, E. T. Khuri,  
J. S. Levinson, M. E. Makover, C. E. Stevens

### Adjunct Assistant Professors of Public Health

R. A. Berman, W. Loery, E. F. Pascarelli

### Adjunct Instructor in Public Health

A. P. D'Adamo

### Research Associates in Public Health

R. S. Brody, T. K. Davis, M. L. Finkel, C. M. Hamill,  
S. Madhavan, J. M. J. Quan, A. Rupp, M. E. Warshauer

### Staff Associates in Public Health

I. B. Katz, S. S. Mills, M. J. Weisel

### Teaching Associates in Public Health

G. J. Fierstein, L. Glass, M. Hickerson, A. Scheidt,  
B. Topf-Olstein

### Postdoctoral Associates in Public Health

L. M. Gerber, J. L. Moodie

### Fellow in Public Health

C. Wilkinson

### Lecturer in Public Health

R. L. Biblo

### Visiting Lecturer in Public Health

J. C. Seed

Teaching in the Department of Public Health focuses on problems of disease, disease control, and health behavior in human groups and communities. Society, rather than the individual, is the "patient." Major teaching aims of the department include increasing the student's understanding of the spread and control of disease in groups of people, of public health problems and potential solutions in industrialized societies, and of the significant environmental hazards to health that people have faced. To a considerable extent, teaching involves study of existing and emerging disease problems and the ways they are shaped by the multiple interrelations of heredity, culture, social relationships, health care, and the physical and biological environment. Methods of study and analysis used in epidemiology and biostatistics are emphasized. Because its concern is with the health of people in the aggregate, the department also has the responsibility for maintaining continuing examination of the effectiveness of various systems of health care delivery.

## Required Courses

### First Year

**Social Determinants of Health and Disease** This course consists of two hours each Wednesday afternoon during the second trimester. It orients the student to the societal context in which illness occurs and the role of the physician and other health professionals in coping with disease problems. Lectures and small group seminars. Coordinator: Dr. Millman. Second trimester, Wednesdays, 2-4 p.m.

**Health Care Systems** This course consists of one lecture hour each Tuesday during the third trimester. The course provides an introductory analysis of existing systems of health care in the United States and abroad, including examination of available health manpower, the orientation of medical practice and its evaluation, facilities for inpatient and outpatient care in relation to community and national needs, methods of funding health care, the role of politics in health care planning, and proposals for modification of current systems. Dr. Reader, Dr. Goss. Third trimester, Tuesdays, 12-1 p.m.

### Second Year

**Introduction to Epidemiology** During the second trimester, students learn about the epidemiologic method that is concerned with the distribution and causal determinants of diseases in man. By determining the attributes of high-risk groups, the epidemiologic method contributes to the primary prevention and earlier detection of diseases. The initial lectures review the important indices of disease frequency, design of retrospective (case history) and prospective (cohort) studies, and the derivation of relative and attributable risk. These fundamentals are then illustrated by reviewing selected communicable and chronic degenerative diseases that are a major source of mortality and disability in our society. Dr. Schottenfeld. Second trimester, Thursdays, 9-10 a.m.

**Introduction to Biostatistics** This course consists of a series of ten one-hour lectures aimed at giving the student a brief introduction to the basic concepts of probability and classical statistics, and the major statistical techniques generally encountered in the medical literature. Methods for collecting and summarizing clinical data are discussed, with emphasis on the design of controlled therapeutic trials. Students have the opportunity to learn how to solve statistical problems using a computer terminal. An exemption test is available for anyone with previous training in statistics. Dr. Miké. Second trimester, Tuesdays, 2-3 p.m.

**Parasitology** The principal emphasis in this course is on disease caused by the larger parasites that are particularly prevalent in so-called economically underdeveloped areas. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens out to include macroscopic parasites. Thus, although the initial and major emphasis of the course is on microcopy, it also serves to introduce the student to the

main avenues for the study of diseases in man—clinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given consideration and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures. Dr. Jones, assisted by Dr. Marsden. Each Tuesday and Thursday at the beginning of the third trimester. The lecture or demonstration is presented from 2-3 p.m.; laboratory exercises take place from 3-5 p.m.

### Third Year

**Public Health and Community Medicine** This third-year course in public health consists of at least seven morning field trips and six afternoon seminar sessions during a two-week period. The exercises are devoted to field experience and literature review, and discussion of major topics in public health as they relate to a metropolitan area. The teaching is conducted with groups of fifteen students and an instructor. Dr. Drusin.

### Elective Options

**Health Economics** The delivery of health care is examined as an economic activity. Economic theory provides the basis for studying the health industry and national health insurance. Topics considered include the characteristics of health and medical services that distinguish the health industry; the implications of these distinctive characteristics for the competitive market system as a mechanism for delivering health services to the consumer; the manpower crisis; rising costs; and forms of payment to hospitals and physicians including Medicare and prepaid insurance. The course includes elective readings and assignments. Second year, hours to be arranged. Dr. McCarthy.

#### Biostatistics I: Introduction to Statistical Reasoning

It is the aim of this course to help participants gain some insight into the theory underlying a probabilistic approach to the treatment of observational or experimental data and to acquaint them with the most basic techniques of statistical analysis. (Any first- or second-year medical student completing this course will be exempted from Introduction to Biostatistics.) Prerequisite: elementary algebra. Two one-hour lectures each week; first trimester. Dr. Miké and staff.

#### Biostatistics II: Methods of Statistical Science

Application of concepts introduced in Biostatistics I to the fields of experimental design, curve fitting, and analysis of count data. Prerequisite: Biostatistics I or equivalent. Two one-hour lectures each week; second trimester. Dr. Miké and staff.

**Evaluation of Quality of Medical Care** In this seminar, current approaches to evaluating the quality of medical care are examined, as are studies dealing with individual and organizational factors that affect quality of care, such as physician characteristics, type of practice, and hospital and clinic settings. Problems involved in monitoring medical-care quality in

different contexts such as neighborhood health centers also are considered, and specific methods in use are illustrated. Readings are assigned and original studies may be undertaken. First trimester, second year. One one-hour seminar each week, at hours to be arranged. Dr. Goss.

#### Problems of Health Care Delivery in New York City

In this seminar, various problems that interfere with delivery of health service in New York City are examined as an illustration of generic difficulties of health care delivery in metropolitan areas. Guest speakers from city agencies are invited to report and participate in the discussions. Readings are assigned. First trimester, first or second year. One one-hour seminar each week, at hours to be arranged. A maximum of twenty students can be accommodated. Dr. Reader.

#### Medical Information and Medical Decision Making

The aim of this one-trimester course is to familiarize the medical student with: (1) definition and types of medical information; (2) capture of medical information including the value of the personal interview; (3) storage of medical information, including the patient's record in its various forms; (4) retrieval of medical information; (5) concepts of disease; (6) principles of medical decision making—diagnosis, treatment, and prognosis; and (7) automated aids to medical information handling and decision making. One one-hour seminar each week and another hour each week for laboratory experience, including work with decision-aids systems under development, at hours to be arranged. Open to students in any of the first three years. Special arrangements can be made for students in the fourth year. There are no medical course prerequisites. A maximum of six students can be accommodated. Readings are assigned. Dr. Engle.

#### Application of Epidemiologic Methods to Problem Solving in Clinical and Community Medicine

This elective will parallel each lecture in the basic course, Introduction to Epidemiology. The epidemiologic approach to questions of disease causation, prevention, screening, treatment, and medical-care organization is developed using examples drawn from the literature. Controversies over clinically relevant issues are considered by examining appropriate observational and experimental studies with special attention to their design and the nature of inferences drawn from them. This series of exercises provides the student with insight into the design of clinical studies and in the use of various epidemiologic investigative strategies. Offered in the second trimester. Open to second-year students. Unlimited enrollment. Tuesday, 3 p.m. Dr. Schottenfeld and Dr. Haas.

#### Perspectives on Drug and Alcohol Abuse

A series of eight two-hour seminars that consider selected drug abuse topics. Each student is expected to prepare a presentation on some aspect of the subject that will serve as the focus for the individual seminars. Direct contact with research and treatment programs is provided. Background readings are suggested. This elective for first-year students is by arrangement. Dr. Millman.

**Epidemiology at the Center for Disease Control, Atlanta, Georgia**

An epidemiology elective in the Epidemiology Program of the Center for Disease Control is available for selected fourth-year medical students. During the two-module elective, students are introduced to both the principles and practices of epidemiology through participation in the day-to-day operation of a national disease surveillance system, and by actively assisting in epidemiological investigations of acute viral, bacterial, or parasitic diseases, or in studies in other Epidemiology Program areas such as family planning evaluating, leukemia, congenital malformations, and nutrition. Insofar as possible, the student is allowed to choose the program area to which he wishes to be assigned. Under the general supervision of a career staff physician, the student, in addition to assisting in epidemic investigations, will work with Epidemic Intelligence Service (EIS) officers in all phases of program activities, including processing of epidemiologic data, preparation of surveillance reports, and participation in staff seminars. Travel and living expenses related to field investigations are defrayed by the Epidemiology Program, but regular living expenses while in Atlanta (which will account for more than half of the elective period), plus basic transportation costs between the current home medical school and Atlanta, must be borne by the student. Offered all year; duration, two modules. Prerequisites: biostatistics, epidemiology, third-year Public Health. Number of students per year: maximum of 2; full-time. Sponsor: Dr. Drusin.

**Community Medicine and Public Health: New York City Department of Health**

This elective is under the direction of Ms. Lenore Deutscher, M.P.A., New York City Department of Health. Utilizing the resources of the New York City Department of Health and its affiliates (Health and Hospital Corporation, Office of the Chief Medical Examiner, District Health Services, Environmental Health Services, Comprehensive Health Planning Agency, etc.) the Health Research Training Program places students on ongoing and ad hoc research projects under the supervision of public health professionals. Those projects are selected that demonstrate the principles of epidemiologic, biostatistical, and other research methods while furthering specific goals in community medicine and public health. They offer practical experience in health programs planning, administration, and evaluation. The training program also makes placements in university medical center clinics and research divisions and in private agencies with a health advocacy role. Offered all year; duration, one module. Prerequisites: biostatistics, epidemiology, third-year Public Health. Number of students per module: maximum of 2; full-time. Sponsors: Dr. Reader and Dr. Drusin.

**Communication and the Use of Language in Medicine**

This course will be offered to first-year students during the third trimester. The rationale of the course is that language is a basic tool in medicine: as anatomy is fundamental to understanding the body, language is fundamental to understanding the patient. Using recordings of actual doctor-patient conversations in office and hospital settings, the course lectures and demonstrations deal with the sense data of lan-

guage, such as pause, pitch, speech rate, words and syntax; how patients use symbols to talk about the body; and how the personal and cultural factors and the situational context are read by the physician. This course is excellent preparation for the second-year course (offered the third trimester in 1980), which will focus on interviewing, history taking, explanation, reassurance, truth-telling, the use of the telephone, and so forth. The course forms the basis for the most effective use of language in diagnosis and treatment. Offered in the third trimester. Open to first-year students. Unlimited enrollment. Dr. Cassell.

**Public Health Pediatrics Preceptorship**

The Sunset Park Family Health Center of the Lutheran Medical Center (Brooklyn, N.Y.) offers extensive clinical experience in family-centered ambulatory pediatrics in an inner-city neighborhood. Students are also expected to participate in related community activities. Offered all year; duration, one module. Prerequisite: completion of third year. Number of students per module: flexible; full-time. Sponsor: Dr. Howe.

**Bedside Approach to the Etiology of Cancer**

In a cooperative program with the Memorial Sloan-Kettering Cancer Center and Cornell University Medical College, students are asked to participate with clinical investigators in using the bedside setting to generate new etiologic hypotheses for specific cancer sites. Alternatively, students may participate in ongoing epidemiologic research projects in which they will be encouraged to assume responsibility for a discrete facet of such investigation. Offered all year; duration, one or more modules. Prerequisites: interview with sponsor. Number of students per module: maximum of 2; full-time or part-time. Sponsors: Dr. Schottenfeld and Dr. Haas.

## Radiology

**Professors of Radiology**

J. P. Whalen, chairman; D. V. Becker, F. C. H. Chu, M. D. F. Deck, R. H. Freiburger, B. S. Hilaris, L. Krook, D. G. Potts, H. L. Stein, R. C. Watson

**Professor of Clinical Radiology**

S. J. Vacirca

**Clinical Professor of Radiology**

M. Mishkin

**Visiting Clinical Professor of Radiology**

D. Wilner

**Associate Professors of Radiology**

L. Anderson, R. S. Benua, J. Bosworth, P. W. Brill, E. Deschner, A. Goldman, A. Govoni, J. Hurley, R. A. Hyman, J. Jacobstein, E. Kazam, J. H. Kim, Z. Mujahed, J. B. Naidich, L. Nisce, N. Paker, L. Rothenberg, J. Smith, T. Sos, H. Teixidor, P. Winchester

**Associate Professors of Clinical Radiology**

J. G. Holt, C. W. Merten

**Clinical Associate Professors of Radiology**

F. Cummins, G. Stassa, J. Zizmor

**Adjunct Associate Professors of Radiology**

S. Balter, P. Cahill, E. Nunez

**Assistant Professors of Radiology**

G. Abbott, M. El Batata, L. Blau, J. Cavalleri, M. Edelman, J. H. Edwards, B. Ghelman, H. Goldberg, M. Goldman, M. Graham, R. T. Heelan, S. Hopfan, H. G. Kantor, C. Kelley, G. Krol, B. Lee, J. Levenbrown, M. Loring, D. Miller, R. Mohan, R. Packert, H. Pavlov, J. Putrino, G. Ragazzoni, R. Rosenberg, E. Rubin, Z. Saary, L. Simpson, B. Skeist, K. Sniderman

**Assistant Professors of Clinical Radiology**

K. Pentlow, J. St. Germain

**Clinical Assistant Professors of Radiology**

A. Butkiewicz, A. Haraway, Jr., J. Hirschy, C. Huntington, R. Leaming, S. Packer, S. Perlmutter, H. Selby, R. Snyder

**Instructors in Radiology**

R. Bugbee, J. Caravelli, H. Poussin-Rosillo, R. Solow, D. M. Stavis, B. Vikram, A. Wecksell

**Clinical Instructors in Radiology**

M. Barandes, K. Schwartz

**Fellows in Radiology**

Y. H. Auh, M. D. Bouzouki, L. Chaise, P. Danes, G. De Filipp, R. Diamond, P. Dunner, C. Freeman, M. Heneghan, C. Hershan, S. Hilton, R. Katz, G. Lantos, L. Neistadt, S. M. O'Connor, H. Pek, S. Saddenkni, S. Singer, M. L. Wallace

**Facilities**

Five floors of the L Building comprise the main facilities of the Radiology Department. A large diagnostic section is located in the Doctor Connie Guion Outpatient Building, adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, the Urology Clinic, and the Payne Whitney Clinic. New diagnostic radiology research facilities are located on the sixth and seventh floors of the William Hale Harkness Research Building.

The Department of Medical Physics at Memorial Hospital provides teaching, service, and research activities in the areas of diagnostic radiology, radiation therapy, and nuclear medicine. The staff and facilities of the Department of Medical Physics are available to interested students.

The teaching of radiology continues through all four academic years. It includes lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of diseases at the regular conferences of the clinical departments, and a variety of elective courses.

**First Year**

**Electives** An elective is offered in diagnostic radiology in collaboration with the Department of Anatomy. Carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use of radiographs enhances the student's understanding of anatomical details and provides the student with a clearer perspective of important anatomical relationships.

An elective course in radiographic anatomy in diagnosis, limited to seven students, is offered in the third trimester. Observation and seminar study of radiographs and their use as an anatomical basis for special procedures will be considered. Conventional radiography and fluoroscopy will be reviewed for further understanding of anatomy.

**Second Year**

In conjunction with the physical diagnosis of the thorax and abdomen, eight hours are devoted to the use of radiology as a tool in teaching physical diagnosis and emphasizing X rays as an extension of the physical examination. Both normal anatomy and selected cases of pathologic alteration are reviewed.

**Third Year**

Third-year instruction in radiology consists of a twenty-eight hour lecture course in diagnostic roentgenology. The aim is to relate the student's knowledge of anatomy and pathology, gained in the first two years, to the findings seen on roentgenograms in various disease entities. The essential diagnostic points of the most frequently encountered lesions are illustrated by material from the department's teaching files. The first third of the course covers the thorax, including the lungs, heart, and mediastinum. The second third of the course covers the abdomen, including the solid viscera and the gastrointestinal tract. The final third of the course covers urological, neurological, and bone radiology. The student is encouraged to gauge his or her progress by self-evaluation sessions after each third.

**Fourth Year**

An elective is offered to groups of up to twenty students each module, consisting of a series of informal talks, seminars, and multiple case presentations in an attempt to apply the information of previous courses. Emphasis is placed on giving the student an appreciation of the use of radiology in a clinical setting. A large film and lantern slide museum of cases, carefully selected for their teaching value, has been prepared. This is constantly upgraded.



An elective in the clinical application of radioactive isotopes consists of a period of participation in and observation of the activities of the Division of Nuclear Medicine. The students will have the opportunity to obtain basic orientation in procedures involved in the quantitation of radionuclides by direct participation in laboratory exercises. These will be carried out in the framework of a clinical laboratory primarily concerned with the diagnosis of a variety of disorders by the application of the techniques of radioactive nuclides.

The student will have an opportunity to observe the various procedures (including organ scanning and a number of physiologic studies) and to evaluate some of the patients receiving these studies and to assist in the interpretation of the procedures. The student will participate in the daily report session in which scans and procedures are reviewed. In addition, if the student wishes, he or she may originate research activities or participate directly in some of the ongoing research activities of the laboratory, ranging from the development and standardization of new procedures to instrument modification and calibration. Also, for the interested student, there will be an opportunity to work with some of the computer-related procedures in the laboratory under the direction of Dr. Patrick Cahill. This course lasts for five weeks and is limited to two students.

## Surgery

### Professors of Surgery

G. T. Shires, Lewis Atterbury Stimson Professor of Surgery, chairman; E. J. Beattie, Jr., A. H. Burstein (applied biomechanics), T. Cooper, P. W. Curreri, Johnson & Johnson Distinguished Professor of Surgery, J. J. DeCosse, P. Dineen, J. G. Fortner, W. A. Gay, Jr., E. I. Goldsmith, D. Goulian, Jr. (plastic surgery), H. Grabstald, W. R. Grafe, V. F. Marshall (urology), N. Martini, E. C. Muecke (urology), R. H. Patterson, Jr. (neurosurgery), M. Perry, S. F. Redo, A. L. Rubin (biochemistry), K. H. Stenzel, E. W. Strong, E. D. Vaughan, James J. Colt Professor of Urology in Surgery, W. F. Whitmore, Jr. (urology), P. D. Wilson, Jr.

### Professors of Clinical Surgery

W. G. Cahan, A. E. Inglis, B. Jacobs, D. B. Levine

### Clinical Professors of Surgery

W. A. Barnes, S. J. Behrman (dentistry), R. W. Laven-  
good, Jr., J. H. McGovern, C. S. Ranawat, L. R.  
Straub, B. Thorbjarnarson, J. C. Whitsell II

### Adjunct Professor of Surgery

C. C. Edwards

### Visiting Professor of Surgery

S. Asko-Seljavaara

### Associate Professors of Surgery

D. L. Bartel, A. R. Beil, Jr., P. C. Canizaro, P. R. Exelby, R. A. R. Fraser (neurosurgery), J. H. Galicich, Jr., H. Gilder (biochemistry), P. M. Guida, J. Horovitz, L. Korngold, J. M. Lane, A. J. Okinaka, R. R. Riggio (biochemistry), P. A. Skudder, M. W. Stearns, Jr., W. T. Stubenbord, V. A. Subramanian, A. D. Turnbull

### Associate Professors of Clinical Surgery

W. Ashakari, W. H. O. Bohne, J. S. Cheigh, D. G. C. Clark, G. N. Cornell, A. F. Cortese, J. H. Dietz, Jr., W. H. Knapper, J. P. Lyden, J. L. Marshall, D. T. Min-  
inberg, K. P. Morrissey, L. Root, E. A. Salvati, J. F. Sullivan

### Clinical Associate Professors of Surgery

W. D. Arnold (orthopedics), R. J. Booher, B. E. Bromberg (plastic surgery), R. D. Campbell, Jr., R. Carras (orthopedics), R. L. Clarke, J. W. Coleman, J. H. Doherty, J. A. Epstein, H. W. Farr, A. A. Fracchia, R. H. Guthrie, B. R. Heinzen, G. R. Hols-  
wade, J. N. Insall, M. J. Kaplitt, J. G. Keuhnlian, F. R. Kunken, B. Landis (psychology), L. J. Lester, C. J. McPeak, H. Mannix, Jr., R. C. Marcove, J. A. Nicholas, W. F. Nickel, Jr., J. J. Putnam, S. H. Q. Quan, G. F. Robbins, S. H. Rothfeld, K. M. Schneider, J. W. Smith, N. Spier, R. M. Stark, H. R. Tollefsen, J. A. Urban, R. S. Waldbaum, G. E. Wantz

### Assistant Professors of Surgery

S. P. Arnoczky, J. M. Aronian, M. S. Bains, J. E. Bax-  
ter (psychiatry), F. Betts, A. L. Blumberg (urology), D. L. Bordan (plastic surgery), T. A. Chaglassian, J. Chami (biochemistry), J. M. Davis, F. W. Gamache, A. C. Geiss, H. W. Herr, W. P. Homan, E. Hoover, H. P. Illner, D. K. Kim, D. W. Kinne, D. N. Kovachev, M. H. Lavyne, B. R. Leslie, L. R. LeWinn, A. Luter-  
man, J. C. McCabe, J. P. McCarron, Jr., P. F. McCormack, I. McQuarrie, J. W. Mellors, J. C. Otis (biomechanics), J. H. Raaf, S. E. Saal, T. P. Sculco, J. P. Shah, M. H. Shiu, M. F. Silane, P. C. Sogani, R. H. Spiro, M. Suthan-  
thiran, L. Tapia, A. J. Tortolani, J. J. Williams, T. Wright, M. F. Yarrowborough

### Assistant Professor of Clinical Surgery

R. F. Warren (orthopedics)

### Clinical Assistant Professors of Surgery

S. E. Asnis, L. A. Behrman (dentistry), C. M. Beiles, L. Bowden, C. N. Breed, M. Brice II (urology), S. E. Carney (dentistry), B. Catlin, D. Catlin, S. C. E. Clay-  
ton, R. Cole (dentistry), W. T. Curry, T. Darrigan (dentistry), J. D. Davis (dentistry), A. J. DePalo, R. W. Duffy, C. R. Dunbar (orthopedics), A. C. Elias (den-  
tistry), G. W. Flint, J. A. Fracchia (urology), S. L. Frantz, M. E. Freund, G. M. Galvin (dentistry), A. F. Glendinning, L. A. Gordon, S. J. Hershon, B. Hoex-  
ter, J. T. Kauer, K. Keningsberg, S. M. Koteen (den-  
tistry), J. M. Leavitt (dentistry), J. C. Lee (dentistry), L. R. Levin, J. S. Lewis, R. M. Linsky, P. J. Marchisello (orthopedics), V. F. Marzulli, C. J. Mauro, V. Mayer



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### Adjunct Assistant Professor of Surgery

P. A. Torzilli (orthopedics)

### Instructors in Surgery

H. A. Bade III, G. M. Gartsman, J. C. Harvey, R. J. Kearns, H. E. Kramer, R. R. McCormack, R. P. Mantica, J. E. Morrison, P. M. Pellicci, B. Reider, R. P. Robinson, F. Salih-Zada, G. Savatsky, B. N. Stulberg, N. Sundaresan, F. Tabatabaai

### Clinical Instructors in Surgery

H. J. Abrams, M. W. Abrams, M. Arlen, M. J. Attkiss, S. Avnet, A. A. Bakst, H. T. Barbaris, F. T. Bergan, R. B. Berroya, G. C. Brown, M. I. Buchbinder, R. E. Decker, S. L. Deckoff, A. R. Deschamps, S. M. Erlanger, M. J. Errico, K. A. Falvo, J. Feinberg, L. A. Fish, P. M. Gallagher, J. P. Gaston, F. P. Gerold, A. H. Gold, R. E. Goldberger, J. L. Halpern (dentistry), M. Helbraun, R. E. L. Hertz, G. Imber, M. J. Kleiner, I. H. Krasna, S. B. Labow, C. W. Lee, M. S. Lemchen, D. J. Levine, A. R. Mackenzie, D. A. Mayer, T. Meshkati, G. W. Miner, J. Mitchell, R. C. Moffatt, L. J. Mondschein, H. I. Nahoum (dentistry), E. A. O'Neill, M. W. Panio, D. N. Papachristou, H. S. Partridge, H. Pearl, E. P. Pickett, T. D. Rizzo, A. D. Rosenthal, R. L. Salzer, Jr., G. W. Sanford, N. H. Schulman, R. G. Schwager, W. N. Scott, G. Sferra, J. M. Sherwood, B. D. Sklansky, H. B. So, A. M. Stone, M. K. Sutaria, A. P. Sutton, A. J. Trattler, S. J. Tunick, J. F. Waller, J. S. Waxler, A. B. White, J. J. Zito

### Senior Clinical Associates in Surgery

E. Arbit, F. Attiyeh, S. Brem, B. Brewer, W. Bryan, P. Cathcart, A. Danyilevich, R. Davidson, J. Doherty, Jr., J. Gallagher, G. Gartsman, N. Green, E. Gundy, J. Harvey, D. Herndon, M. Jolley, D. Joseph, R. Kearns, P. Kirz, J. Krieger, W. K. P. Li, R. McCormack, T. McGovern, R. Mantica, J. Mendes, J. Morrison, M. Moseson, E. Nowak, R. Pack, P. Pellicci, B. Reider, R. Riehle, Jr., R. Robinson, K. Rothaus, G. Savatsky, J. R. Seebacher, J. Sherman, M. Sherman, P. Stelzer, S. Stuchin, B. Stulberg, N. Sundaresan, F. Tabatabaai, J. Whitcomb, T. Wickiewicz, W. Yee

### Clinical Associates in Surgery

A. Antonacci, R. Anderson, R. Atkinson, F. Badillo, R. Badillo, H. Beaton, W. Bell, A. Bodenstab, N. Bloom, E. Breeland, G. Bromley, F. Catinella, P. Chang, D. Cheung, P. Church, R. Ciardullo, S. Clifford, W. Cline, H. Cody III, P. Cunningham, G. DeBoccardo,

A. DeFabritus, D. Dethmers, R. Dombroff, B. Eisenberg, A. Eisenkeit, L. Ercolani, J. Evans, K. Field, H. Fillit, L. Flawn, D. Fofung, L. Gibson, W. Glover, J. Gold, I. Gowan, G. Graves, V. Graziano, R. Greenberg, S. Handelsman, B. Harter, R. Hayworth, J. Healey, S. Hirshorn, J. P. Hoffman, L. Hoffman, A. Israel, N. Johanson, S. Kay, G. Kelman, W. Kraybill, Jr., P. Lachiewicz, K. Leider, J. McConnell, W. Mackey, P. McMahon, J. Mannion, C. Mills, H. Misholy, P. Montefusco, G. Moro, T. Nordstrom, J. Novello, J. Owens, J. Parnell, V. Parnell, J. A. Petrek, A. Peitzman, P. Pezzello, S. Pilipshen, J. Rabson, C. Reed, D. Rich, R. Richter, D. Rose, H. Rose, M. Ruddy, A. Schneider, R. Schultz, M. Sedwitz, D. Smego, R. E. Sosa, J. Stack, E. Tuch, F. Thompson, R. Voorhies, H. Webb, D. Weingrad, B. Wolff, R. Yetman

### Postdoctoral Associates in Surgery

W. Corbett, L. S. Lee, S. Pett, D. Velcek

## Required Courses

### First Year

In the second trimester, in the Interdisciplinary Course, there is one session on the management of acute emergency care.

### Second Year

Instruction begins in the third trimester of the second year. Sessions are provided in general surgical problems as part of the course in physical diagnosis. Instruction is also provided in orthopedic and urologic examination.

### Third Year

The curriculum for the third year provides a core program of clinical instruction in surgery to the students during a twelve-week period. This consolidates all surgical instruction, outside of initial teaching in physical diagnosis in the second year, and leaves the fourth year for elective studies.

The third-year class is divided into four sections. Each quarter provides approximately twelve weeks on the general surgery pavilions with a selection of rotations through the divisions of thoracic surgery, urology, plastic surgery, orthopedics, and the Memorial Sloan-Kettering Cancer Center. During this time, the student acts as clinical clerk and participates in day-to-day activities in patient care. The student gathers experience by taking complete histories and doing physical examinations. The student also evaluates laboratory determinations on assigned patients and has an opportunity to participate in the preoperative preparation. When the patient is operated on, the student may act as part of the operating team to see at first hand the pathological conditions for which the operation was undertaken. The student attends the rounds held by the residents and members of the senior staff.

Each Wednesday, from 2 to 3 p.m., the chairman of the department has a conference with the student body during which various surgical problems are reviewed.

Three days a week, on Mondays, Tuesdays, and Thursdays, from 2 to 4 p.m., seminars are held in which attending surgeons lecture on surgery and its subspecialties. This schedule provides a broad coverage of surgery in its entirety.

On Monday and Friday afternoons, ward rounds are held by surgeons accompanied by students. These rounds are oriented toward the particular patients and problems available on the floor each time. On Wednesday mornings there is a session in experimental surgery. The students are divided into groups and operations on animals (dogs) are performed under the direction of surgeons. Students alternate as anesthesiologists, surgeons, and assistants during the operations. These operations are performed under strict aseptic conditions and simulate conditions actually encountered in the operating room. The students are responsible for the care of the animal during the preoperative and postoperative periods, writing operative notes, and keeping a log for each operation that is performed. On Tuesday afternoons, instruction

is provided in ophthalmology and ear, nose, and throat diseases by the respective departments.

Grand rounds are held on Wednesday afternoons and each student's attendance is required. These rounds last for one hour or more. One specific surgical problem is discussed in depth by two residents and a faculty moderator. Experience in emergency surgical care is provided in the Emergency Room where the students are part of the emergency admitting team.

## Elective Options

### Fourth Year

In the fourth year, the Department of Surgery offers a variety of electives, including experiences in clinical fields as well as in research laboratories. These are fully outlined in the *Catalog of Electives*. It is at this time that the students have an opportunity to work in the Burn Center.

## Schedules 1979-80

**First Year: Core Curriculum****First Trimester, Weeks 1-5**

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Gross Anatomy   A-250	Biochemistry A-250	Biochemistry A-250	Biochemistry A-250	Microscopic Anatomy A-250
10-11		Microscopic Anatomy  A-250	Gross Anatomy  A-250	Microscopic Anatomy  A-250	Gross Anatomy  A-250
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry A-250	Elective	Introductory Medicine  A-950	Psychiatry  P-004	Biochemistry  A-250, A-950
3-4	Elective		Elective		
4-5					

**First Trimester, Weeks 6-11**

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Gross Anatomy   A-250	Biochemistry A-250	Biochemistry A-250	Biochemistry A-250	Gross Anatomy   A-250
10-11		Microscopic Anatomy  A-250	Gross Anatomy  A-250	Microscopic Anatomy  A-250	
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry A-250	Elective	Introductory Medicine  A-950	Psychiatry  P-004	Biochemistry  A-250, A-950
3-4	Elective		Elective		
4-5					

First Year

Second Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Biochemistry A-250	Physiology A-250	Biochemistry A-250	Biochemistry A-250	Physiology  A-250  Gross Anatomy A-250  Elective
10–11	Gross Anatomy  A-250	Microscopic Anatomy  A-250	Gross Anatomy  A-250	Microscopic Anatomy  A-250	
11–12					
12–1					
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Physiology A-250	Elective	Public Health: Social Determinants of Health and Disease A-250	Gross Anatomy  A-250	Biochemistry  A-250, A-950
3–4	Elective		Elective		
4–5					

Third Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	
9–10	Physiology A-250	Neuroscience  A-250  Public Health: Health Care Systems A-250	Physiology  A-250	Elective  Lunch	Neuroscience A-250	
10–11	Neuroscience A-250				Physiology	
11–12	Interdisciplinary					Physiology
12–1	A-250			Lunch	A-250	
1–2	Lunch	Lunch	Lunch	Psychiatry	Lunch	
2–3	Neuroscience  A-250	Elective	Physiology Laboratory	P-004	Elective	
3–4				Elective		
4–5						

**Second Year****First Trimester**

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Pathology   C-215	Pharmacology A-950	Pathology   C-215	Pharmacology   A-950, C-215	Pathology   C-215
10–11		Pathology			
11–12		C-215			
12–1		CPC B-011			
1–2	Lunch	Lunch	Lunch		Lunch
2–3	Microbiology  C-215	Pharmacology A-250	Microbiology  A-250	Lunch	Microbiology  C-215
3–4		Elective		Elective	
4–5					

**Second Trimester**

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Pharmacology A-950	Free	Pathology   C-215	Public Health: Biostatistics A-950	Pathology   C-215
10–11	Pathology  A-950, C-215	Pharmacology		Pharmacology  A-950, C-215	
11–12		A-950, C-215			
12–1		CPC B-011			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Microbiology  C-215	Public Health: Epidemiology A-950	Elective	Psychiatry  P-004	Microbiology  C-215
3–4		Elective			
4–5					

Third Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday			
9–10	Medicine: Pathophysiology C-215  and Physical Diagnosis A-950	Elective	Medicine: Pathophysiology C-215  and Physical Diagnosis A-950	Weeks 1-4: Parasitology C-215  Weeks 5-11: Pathophysiology C-215	Medicine: Pathophysiology C-215 and Physical Diagnosis A-950			
10–11								
11–12		CPC B-011						
12–1			Neurology C-215					
1–2	Lunch	Lunch	Lunch	Lunch	Lunch			
2–3	Medicine: Neurology, and Physical Diagnosis  A-950	Weeks 1-4: Parasitology C-215	Medicine: Neurology, and Physical Diagnosis  A-950	Weeks 1-4: Parasitology C-215  Weeks 5-11: Pediatrics C-215	Medicine: Neurology, and Physical Diagnosis  A-950, A-250			
3–4		Weeks 5-11: Elective*						
4–5								

\* Except for 3 hours of Obstetrics and Gynecology (C-215)

Third Year

Rotations

See chart on facing page.

Fourth Year

Elective Modules

Module A	September 4-October 5
Module B	October 8-November 9
Module C	November 12-December 14
Module D	January 2-February 1
Module E	February 4-March 7
Module F	March 10-April 11
Module G	April 14-May 16

	Period 1					Period 2					Period 3					Period 4				
	Sept. 4	Oct. 1	Oct. 15	Oct. 29	Nov. 26	Dec. 22 Jan. 2	Jan. 14	Jan. 28	Feb. 25	Mar. 24	Apr. 5	Apr. 14	Apr. 28	May 27	June 23	July 7	July 21	Aug. 16		
Rotation IA	Psychiatry		PH	Neurology	Psychiatry	Winter Recess	Psych. cont.	PH	Neurology	Psychiatry		Spring Recess	PH	Neurology	Psychiatry		PH	Neurology		
Rotation IB	Neurology	PH	Psychiatry		Neurology		PH	Psychiatry		Neurology	PH		Psychiatry		Neurology	PH	Psychiatry			
Rotation IIA	Pediatrics		Obstetrics and Gynecology		Pediatrics		Pediatrics, cont.	Obstetrics and Gynecology		Pediatrics			Obstetrics and Gynecology		Pediatrics		Obstetrics and Gynecology			
Rotation IIB	Obstetrics and Gynecology		Pediatrics		Obstetrics and Gynecology		Ob- Gyn. cont.	Pediatrics		Obstetrics and Gynecology			Pediatrics		Obstetrics and Gynecology		Pediatrics			
Rotation III	Surgery				Surgery	Winter Recess	Surgery			Surgery		Spring Recess	Surgery		Surgery					
Rotation IV	Medicine				Medicine		Winter Recess	Medicine			Medicine		Spring Recess	Medicine		Medicine				



CORNELL  
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## Cornell University

# Register

## Administration

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### The New York Hospital-Cornell Medical Center

The center was formed by an agreement between The Society of The New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions. The center includes not only Cornell University Medical College and The New York Hospital, but also the Graduate School of Medical Sciences of Cornell University.

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- Fun-Sun Yao, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. M.B. 1968, National Taiwan University. (1973; 1977)
- Michael F. Yarborough, Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. B.S. 1968, Davidson College; M.D. 1972, University of North Carolina. (1977)
- Samuel D. J. Yeh, Associate Professor of Clinical Medicine. M.D. 1948, Medical School National Defense Medical Center, Shanghai (China); Sc.D. 1960, Johns Hopkins University. (1965; 1979)
- Stanley S. Yormak, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1954, City College of New York; M.D. 1959, University of Rochester. (1964; 1966)
- Charles W. Young, Associate Professor of Medicine. Associate Attending Physician, Hematology-Lymphoma Service, Memorial Hospital. A.B. 1952, Columbia University; M.D. 1956, Harvard University. (1966; 1976)
- Dean F. Young, Assistant Professor of Neurology. Clinical Affiliate in Neurology, New York Hospital. B.A. 1962, Kenyon College; M.D. 1966, Harvard University. (1970; 1976)
- Nancy Lizotte Young, Assistant Professor of Biochemistry in Medicine. B.S. 1959, Antioch College; Ph.D. 1974, Purdue University. (1977)
- Robert C. Young, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1969, Williams College; M.D. 1974, Cornell University. (1979)
- Ronald J. Young, Associate Professor of Reproductive Biology in Obstetrics and Gynecology. B.Sc. 1954, Sydney University (Australia); Ph.D. 1958, University of New South Wales (Australia). (1973; 1974)
- David A. Zackson, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine OP, New York Hospital. B.S. 1953, Queens College; M.D. 1957, New York University. (1972; 1975)
- Mordechai Zadik, Clinical Instructor in Pediatrics. M.D. 1969, Sorok Medical Center (Israel). (1979)
- Joseph J. Zaia, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. M.D. 1951, Georgetown University. (1971)
- Charles G. Zaroulis, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.A. 1961, M.D. 1965, University of Virginia. (1977)
- Ann Graham Zaubner, Assistant Professor of Biostatistics in Public Health. B.A. 1969, Hollins College; Ph.D. 1976, Johns Hopkins University. (1979)
- Michael J. Zema, Clinical Instructor in Medicine. B.S. 1970, Fordham University; M.D. 1974, Cornell University. (1979)
- David Zigelman, Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1969, Yeshiva University; M.D. 1973, Cornell University. (1974; 1976)
- Alan T. Zimbard, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, Manhattan Eye, Ear and Throat Hospital. B.S. 1969, City College of New York; M.D. 1974, College of Medicine and Dentistry of New Jersey. (1979)
- Muriel Zimmerman, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, Department of Psychiatry. B.A. 1941, Brooklyn College; Ph.D. 1944, New School for Social Research. (1973; 1978)
- Stanley S. Zipser, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia University; M.D. 1936, Long Island College of Medicine. (1940; 1978)
- Heddy Zirin, Clinical Instructor in Pediatrics. B.A. 1969, Smith College; M.D. 1975, Georgetown University. (1979)
- Joseph J. Zito, Clinical Instructor in Surgery (Dentistry). Clinical Associate Oral Surgeon, New York Hospital. D.D.S. 1947, Temple University. (1977)
- Judah Zizmor, Clinical Associate Professor of Radiology. Attending Radiologist, New York Hospital; Director, Diagnostic Radiology, Manhattan Eye, Ear and Throat Hospital. B.A. 1932 and M.D. 1934, University of Wisconsin. (1972)
- Philip H. Zweifach, Clinical Associate Professor of Ophthalmology in Neurology; Clinical Associate Professor of Ophthalmology. Associate Attending Neurologist, and Associate Attending Ophthalmologist, New York Hospital. B.S. 1957, City College of New York; M.D. 1961, Cornell University. (1963; 1976)

## Internship Appointments

### Class of 1979

- Kenneth Gary Adams, Medicine; St. Louis Jewish Hospital, St. Louis, Missouri
- Dale Steven Adler, Medicine; Peter Bent Brigham Hospital, Boston, Massachusetts
- Todd Robert August, Medicine; Baylor College Affiliated Hospitals, Houston, Texas
- Ernest Frank Baldwin III, Medicine; Hospitals University Health Center, Pittsburgh, Pennsylvania
- Lucinda Burr Barnard, Medicine; Roger Williams General Hospital, Providence, Rhode Island
- Gary Keith Berman, Medicine; S.U.N.Y. Stonybrook Affiliated Hospitals, Northport, New York
- Alan Leonard Bernstein, Medicine; Miriam Hospital, Providence, Rhode Island

- Drucy Sarette Borowitz, Pediatrics; Childrens Hospital, Philadelphia, Pennsylvania
- Mark Judson Botham, Surgery; University of Michigan Affiliated Hospitals, Ann Arbor, Michigan
- Donald Barry Boyd, Medicine; New York Hospital, New York, New York
- William Paul Burdick, Medicine; Boston City Hospital, Boston, Massachusetts
- William Judson Burtis, Medicine; New York Hospital, New York, New York
- Robert John Buys, Flexible; Mercy Hospital, San Diego, California
- Emanuel Crespo, Family Practice; Brookdale Hospital Center, Brooklyn, New York
- Byron Paul DeLemos, Medicine; Case Western Reserve Metropolitan General Hospital, Cleveland, Ohio
- David Lincoln Diuguid, Medicine; University Hospitals, Boston, Massachusetts
- Van Howard Dunn, Medicine; Boston City Hospital, Boston, Massachusetts
- Barry Evan Egener, Medicine; University of Oregon Medical Center, Portland, Oregon
- Catherine Anne Egli, Pediatrics; Kaiser Foundation Hospital, San Francisco, California
- Paula Gail Elster, Medicine; Roosevelt Hospital, New York, New York
- Clara Emilia Escuder, Pediatrics; St. Louis Childrens Hospital, St. Louis, Missouri
- Mychelle Yvette Farmer, Pediatrics; Johns Hopkins Hospital, Baltimore, Maryland
- Sherry Lynn Fine, Surgery; Mount Sinai Hospital, New York, New York
- Stuart Fischer, Medicine; Cincinnati General Hospital, Cincinnati, Ohio
- David Frank, Medicine; North Shore University Hospital, Manhasset, New York
- Richard Alan Furie, Medicine; New York Hospital, New York, New York
- Paul Jason Glass, Medicine; Northwestern University Medical School, Chicago, Illinois
- Shelley Merle Gordon, Medicine; Harlem Hospital, New York, New York
- James B. Grimes, Surgery; Barnes Hospital, St. Louis, Missouri
- Harvey Guttman, Medicine; New York Hospital, New York, New York
- David Mason Hallbert, Medicine; North Shore University Hospital, Manhasset, New York
- Marie F. Hatam, Surgery; Martland Medical Center, Newark, New Jersey
- Paul H. Hertz, Medicine; Michael Reese Hospital, Chicago, Illinois
- Diana Rodo Horne, Surgery; Montefiore Hospital and Medical Center, Bronx, New York
- David George Jacobs, Surgery; Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania
- Catharine Luella Joachim, Medicine; University of Chicago Clinics, Chicago, Illinois
- Zoe Janette Jones, Medicine; Bronx Municipal Hospital Center, Bronx, New York
- Robert David Kaplan, Medicine; New York Hospital, New York, New York
- John Edward Kehoe, Surgery; Mount Sinai Hospital, New York, New York
- Jane Ellen Kelman, Psychiatry; Westchester Division -New York Hospital, White Plains, New York
- Eric Milton Koscove, Medicine; University of New Mexico Affiliated Hospitals, Albuquerque, New Mexico
- Joseph Antal Kovacs, Medicine; New York Hospital, New York, New York
- Bart Avrum Kummer, Medicine; Harlem Hospital, New York, New York
- David Frederick Landry, Medicine; Rhode Island Hospital, Providence, Rhode Island
- Marjorie Helen Lavin, Pediatrics; Thomas Jefferson University Hospital, Philadelphia, Pennsylvania
- Robert Michael Lawrence, Pediatrics; Montefiore Hospital and Medical Center, Bronx, New York
- Thomas H. Lee, Jr., Medicine; Peter Bent Brigham Hospital, Boston, Massachusetts
- Gifford S. Leoung, Medicine; Washington Hospital Center, Washington, D.C.
- Irene Helen Ludwig, Surgery; University of Virginia Hospital, Charlottesville, Virginia
- Steven Kean Luminais, Medicine; Medical College of Pennsylvania, Philadelphia, Pennsylvania
- Laurel Blima Mark, Medicine; Cook County Hospital, Chicago, Illinois
- George Edmead Matthews, Medicine; Medical College of Pennsylvania, Philadelphia, Pennsylvania
- Paul Henry Mayo, Medicine; Roosevelt Hospital, New York, New York
- David Grant Meyer, Medicine; Hospitals University Health Center, Pittsburgh, Pennsylvania
- Brent Wynn Miedema, Surgery; New York Hospital, New York, New York
- Jeffrey Louis Moorman, Surgery; Mount Sinai Hospital, New York, New York
- Thomas James O'Dowd, Surgery; Johns Hopkins Hospital, Baltimore, Maryland
- Frederick Peter Ognibene, Medicine; New York Hospital, New York, New York
- Melissa Paterno, Medicine; New York Hospital, New York, New York
- Barry Scott Pinchoff, Medicine; Harlem Hospital, New York, New York
- Donovan Charles Polack, Medicine; Grady Memorial Hospital, Atlanta, Georgia
- Donald Richard Polakoff, Surgery; University of Texas S.W. Affiliated Hospitals, Dallas, Texas
- Frank Oliver Richards, Pediatrics; Childrens Hospital, Los Angeles, California
- Bruce Lee Ring, Medicine; Albany Medical Center Hospital, Albany, New York
- Patricia Marie Romano, Medicine; New York Hospital, New York, New York
- Harley Aaron Rotbart, Pediatrics; Childrens Hospital, Philadelphia, Pennsylvania
- Brian Saltzman, Surgery; New York Hospital, New York, New York
- Patricia Constantia Samuels, Pediatrics; Bronx Municipal Hospital, Bronx, New York
- William John Schickler III, Surgery; New York Hospital, New York, New York
- Steven Mark Schlossberg, Surgery; New York Hospital, New York, New York
- Ann Whitney Schongalla, Medicine; New York Hospital, New York, New York
- Steven Edward Schutze, Medicine; S.U.N.Y. Stonybrook Affiliated Hospitals, Northport, New York
- Kevin Mark Shannon, Pediatrics; Childrens Medical Center, Dallas, Texas

- Theresa Tarlton Sherrod, Medicine; San Diego Naval Hospital, San Diego, California
- Raymond Allen Shofler, Surgery; Los Angeles County-U.S.C. Center, Los Angeles, California
- Samuel Michael Silver, Medicine; University of California Hospitals, San Francisco, California
- Paul Albert Skudder, Jr., Surgery; University of Rochester Hospital Programs, Rochester, New York
- Cynthia Lee Smith, Pediatrics; Childrens Hospital, Washington, D.C.
- Thomas Warren Snickenberger, Surgery; Northwestern University Medical Center, Chicago, Illinois
- Michael Sheldon Snyder, Pediatrics; New York Hospital, New York, New York
- David Dean Speck, Medicine; Mary Imogene Bassett Hospital, Cooperstown, New York
- Ronni Gail Stein, Family Practice; University of Connecticut Affiliated Hospitals, Farmington, Connecticut
- Anthony Lee Suchman, Medicine; Strong Memorial Hospital, Rochester, New York
- David John Sugarbaker, Surgery; Peter Bent Brigham Hospital, Boston, Massachusetts
- John Robert Sussman, Obstetrics and Gynecology; Johns Hopkins Hospital, Baltimore, Maryland
- Stewart Jeff Tepper, Medicine; University Hospitals, Boston, Massachusetts
- Howard Paul Terry, Medicine; North Shore University Hospital, Manhasset, New York
- James Michael Thiel, Medicine; Georgetown University Hospital, Washington, D.C.
- Melissa Joy Thiel, Obstetrics and Gynecology; Walter Reed Army Medical Center, Washington, D.C.
- Tony Wai Yee Tow, Medicine; New York Hospital, New York, New York
- Gerald James Ukrainski, Medicine; Hospitals University Medical Center, Pittsburgh, Pennsylvania
- Donald Cedric Wallerson, Medicine; Montefiore Hospital and Medical Center, Bronx, New York
- B. Jeffrey Wallis, Medicine; University of Michigan Affiliated Hospitals, Ann Arbor, Michigan
- Paul Brent Watkins, Medicine; New York Hospital, New York, New York
- Andrea Bertocci Webber, Medicine; Montefiore Hospital Center, Bronx, New York
- Adrienne L. Weiss-Harrison, Pediatrics; New York Hospital, New York, New York
- Harold Wenger, Surgery; Michael Reese Hospital, Chicago, Illinois
- Steven Walter Werns, Medicine; New York Hospital, New York, New York
- Gary Peter Wilton, Medicine; University of Michigan Affiliated Hospitals, Ann Arbor, Michigan
- Jeffrey Philip Winick, Medicine; Albert Einstein Medical Center, Philadelphia, Pennsylvania
- Anthony John Barletta, B.S. 1976, Cornell University; Mount Vernon, New York
- James Stephen Bauman, B.A. 1976, Queens College; Bayside, New York
- Robert Nathan Belkin, A.B. 1976, Princeton University; Jericho, New York
- Ralph James Blair III, B.S. 1976, State University of New York at Albany; Ogdensburg, New York
- James Colegrove Blankenship, A.B. 1976, Cornell University; Denville, New Jersey
- Patricia Ellen Boiko, B.A. 1976, Queens College; Bellerose, New York
- Michael William Born, B.A. 1976, University of Vermont, Euclid, Ohio
- Scott Evan Brodie, B.A. 1974 and M.A. 1974, Wesleyan University; Ph.D. 1979, Rockefeller University; Westport, Connecticut
- Gary C. Butts, A.B. 1976, Columbia University; Brooklyn, New York
- Andrew Bruce Campbell, B.S. 1976, Rensselaer Polytechnic Institute, Bronx, New York
- Robert Francis Carter, Jr., A.B. 1976, Columbia University; Far Rockaway, New York
- Yi-Shing Brian Changlai, B.S.Ch.E. 1967, National Taiwan University; M.S. 1970, Ph.D. 1972, Clarkson College of Technology; Northport, New York
- Ellen Cohen, B.S. 1975, University of Massachusetts; Bronx, New York
- Charles Nelson Cornell, B.A. 1976, Williams College; Pelham, New York
- Lawrence Patrick Costello, B.A. 1962, University of North Carolina; M.S. 1969, Columbia University; Mt. Kisco, New York
- Robert Leopold Danner, Jr., B.A. 1976, Johns Hopkins University; Florida, New York
- Harry Arthur Davis, B.A. 1969, Hofstra University; Olive Bridge, New York
- Bette May DeMartini, B.S. 1968, Cornell University; M.S. 1972, New York University; New York, New York
- Ethan Dmitrovsky, A.B. 1976, Harvard University; Roslyn Heights, New York
- David Wayne Dodson-Yarnell, A.B. 1974, Cornell University; Port Chester, New York
- Jane Marie Doyle, B.S. 1976, Radcliffe College; New York, New York
- Mark Drucker, B.A. 1976, University of California at Berkeley; Pacifica, California
- Joseph Eichenbaum, B.A. 1976, Yeshiva University; Lakewood, New Jersey
- David Keith Emmel, B.A. 1972, New York University; New York, New York
- Barbara Lynn Engelson, B.S. 1976, Cornell University; Bayside, New York
- Steven Allen Fiamengo, A.B. 1976, Columbia University; Redwood City, California
- J. Stephen Fink, B.A. 1972, Trinity College; Ph.D. 1977, Cornell University; White Plains, New York
- Gail Iles Genvert, B.A. 1973, Smith College; Dunedin, Florida
- Lambros George Geotes, A.B. 1975, Columbia University; New York, New York
- Laurie Ann Gordon, B.S. 1976, Yale University; Woodbridge, Connecticut
- Alice Bendix Gottlieb, B.A. 1973, Brandeis University; Ph.D. 1979, Rockefeller University; New York, New York

## Students 1979-80

### Fourth-Year Class

- Linda Susan Altman, B.S. 1976, Cornell University; Tappan, New York
- Alpha Jerome Anders, B.S. 1976, Colorado College; Colorado Springs, Colorado
- Paul Stephen Baecher, B.S. 1976, Fordham University; Sea Cliff, New York

- Iris Ann Granek, B.S. 1974, Cornell University; New York, New York
- John Nezzen Green, B.S. 1975, St. John's University; St. Albans, New York
- Damian David Gress, B.S. 1976, Syracuse University; Buffalo, New York
- Carolyn Heyward Grosvenor, B.S. 1976, Rensselaer Polytechnic Institute; Queens Village, New York
- Mark Gudesblatt, B.A. 1976, Johns Hopkins University; New Hyde Park, New York
- Jennifer Cornelia Hill Gunn, A.B. 1975, Barnard College; Trumansburg, New York
- Walter Thomas Gutowski III, A.B. 1976, Columbia University; Cedar Grove, New Jersey
- David Brian Hackney, A.B. 1976, Harvard University; Washington, D.C.
- Neil Hayes Halvey, A.B. 1976, Cornell University; Manhasset, New York
- David Elwood Hansen, B.A. 1976, Amherst College; Allendale, New Jersey
- Mark Andrew Heitner, B.A. 1972, Connecticut College; New York, New York
- Steven Herskovitz, B.S. 1976, State University of New York at Stony Brook; Brooklyn, New York
- Martin A. Hirsch, B.A. 1976, Yeshiva University; Far Rockaway, New York
- Betsy Anne Holland, B.S. 1976, Stanford University; Menlo Park, California
- John Neal Hurley, B.A. 1972, Williams College; Ph.D. 1979, Rockefeller University; Armonk, New York
- Richard Stephen Infante, B.A. 1973, City University of New York; M.A.T. 1975, State University of New York at Stony Brook; Whitestone, New York
- Edward Kevin James, A.B. 1976, University of Pennsylvania; New Shrewsbury, New Jersey
- Neil Louis Julie, B.S. 1975, City College of New York; New York, New York
- Ronald Nathaniel Kaleya, A.B. 1976, Columbia University; Woodmere, New York
- Susan Aree KambhuNaAyudhaya, A.B. 1976, Radcliffe College; Cambridge, Massachusetts
- Frederick David Kaplan, B.A. 1976, Queens College; Bayside, New York
- Steven Toshihiro Kariya, A.B. 1976, Harvard University; Leonia, New Jersey
- Kevin Vincent Kelly, B.A. 1972, Williams College; M.A. 1975, University of Chicago; Princeton, New Jersey
- Martin Elliot Kessler, B.A. 1976, Queens College; Far Rockaway, New York
- Kathryn Elizabeth Kindwall, B.A. 1976, Mount Holyoke College; Weston, Connecticut
- Eric Martin Kitain, B.A. 1976, State University of New York at Stony Brook; South Hempstead, New York
- Rosemary Ellen Meisner Klenk, B.A. 1970, University of Rochester; B.S., R.N. 1972, Columbia University; New York, New York
- Jeffrey Kocher, A.B. 1976, Cornell University; Plymouth, Pennsylvania
- Bruce Richard Korf, B.A. 1974, Cornell University; Ph.D. 1979, Rockefeller University; Matawan, New Jersey
- James Stephen Krinsley, A.B. 1976, Yale University; Larchmont, New York
- Spencer H. Kubo, A.B. 1976, Dartmouth College; River Edge, New Jersey
- Mark Bruce Landon, A.B. 1975, University of Pennsylvania; Forest Hills, New York
- Theodore Steven Lawrence, B.A. 1974, Cornell University; Ph.D. 1979, Rockefeller University; Port Washington, New York
- Donald Alan Leichter, B.S. 1974, Duke University; Cedar Grove, New Jersey
- Enid Lynn Leikin, B.A. 1976, Vassar College; Bethesda, Maryland
- Vishwanath Rao Lingappa, B.S. 1975, Swarthmore College; Worcester, Massachusetts
- Noreen Helen Linn, B.A. 1976, City College of New York; Bronx, New York
- Robert Howard Lustig, B.S. 1976, Massachusetts Institute of Technology; Brooklyn, New York
- Hillel Y. Marans, A.B. 1976, Columbia University; Cedarhurst, New York
- Irma Maria Matos, B.S. 1976, Fordham University; Brooklyn, New York
- Ellen Maude Mellow, A.B. 1976, Princeton University; Brooklyn, New York
- Kenneth Edmund Merhige, A.B. 1976, Cornell University; Brooklyn, New York
- Robert John Mishkin, B.A. 1971, University of California at Berkeley; New York, New York
- Robert Paul Naparstek, B.A. 1974, Queens College; New York, New York
- Roger Steven Nathaniel, B.S. 1976, Massachusetts Institute of Technology; Elmhurst, New York
- Gregory Jay Naus, B.A. 1974, University of Wisconsin; Sheboygan, Wisconsin
- Gary Jack Noel, A.B. 1976, Dartmouth College; Livingston, New Jersey
- Peter Michael Okin, B.S. 1976, Massachusetts Institute of Technology; Hartsville, New York
- Peter James Palasota III, B.A. 1973, Juilliard School; New York, New York
- David Martin Panicek, A.B. 1976, Cornell University; Johnson City, New York
- Rochelle Leeb Peck, B.S. 1970, University of Wisconsin; New York, New York
- Peri Petras, B.S. 1976, Queens College; Flushing, New York
- Barbara Anne Phillips, B.A. 1971, Hunter College; Brooklyn, New York
- Stuart Bruce Pink, B.A. 1971, Hamilton College; Wellsville, New York
- Arthur Hirsch Pomerantz, B.S. 1974, Yale University; Ph.D. 1979, Rockefeller University; Wethersfield, Connecticut
- Alan David Proia, B.A. 1973, Johns Hopkins University; Ph.D. 1979, Rockefeller University; Silver Spring, Maryland
- Bradley Arden Radwaner, B.A. 1976, University of Rochester; Bronx, New York
- Rupa Cook Redding, B.A. 1975, Swarthmore College; Glens Falls, Pennsylvania
- Carl Wayne Rettenmier, B.S. 1973, Syracuse University; Ph.D. 1979, Rockefeller University; Youngstown, Ohio
- Michelle Antonia Rivera, B.A. 1976, New York University; New York, New York
- Marc Rubin, Cornell University; Englewood, New Jersey
- Earl Victor Sandor, A.B. 1976, Columbia University; Jackson Heights, New York
- Andrew Gary Schechter, B.S. 1972, University of Michigan; Brooklyn, New York



- Karen Lynne Schneider, B.A. 1976, Queens College; North Woodmere, New York
- Alexander Shadid, Jr., B.S. 1976, Harvard University; Elk City, Oklahoma
- Mary Montgomery Sickles, A.B. 1975, University of Pennsylvania; Clifton, New Jersey
- Shonni Joy Silverberg, B.A. 1976, Wesleyan University, Scarsdale, New York
- Steven Richard Silverstein, A.B. 1976, Harvard University; Dewitt, New York
- Kathy Anne Smachlo, B.S. and B.A. 1976, University of Rochester, Rexford, New York
- Mary Ann Regina Snowden, B.S. 1976, Brooklyn College; New York, New York
- John James Somerville, B.A. 1974, State University of New York at Stony Brook; East Northport, New York
- Emilia Mia Sordillo, A.B. 1976, Radcliffe College; Malba, New York
- Linda Ann Specht, A.B. 1973, Mount Holyoke College; Ph.D. 1979, Cornell University; Barrington, Rhode Island
- Bauer Enriquez Sumpio, B.A. 1974, Johns Hopkins University; Elizabethtown, North Carolina
- Nadine M. Trainer, B.A. 1975, Queens College; Flushing, New York
- Richard Saul Tushman, A.B. 1974, Dartmouth College; Medford, Massachusetts
- Jonathan David Victor, A.B. 1973, Harvard University; New York, New York
- Charles Jay Waisbren, B.S. 1976, Cornell University; Milwaukee, Wisconsin
- Gary Alan Weiser, B.S. 1976, Union College; Flushing, New York
- Janet M. Werkmeister, B.A. 1972, Fordham University; Linden, New Jersey
- Karl Frederick Weyrauch, B.A. 1976, Swarthmore College; Silver Spring, Maryland
- Mark Zombek, B.S. 1976, City College of New York; New York, New York
- Anthony J. Cannon, B.S. 1977, Clark University; Bay Shore, New York
- Paul Bradley Chapman, A.B. 1977, Cornell University; Highland Park, Illinois
- Bruce David Charash, A.B. 1977, Cornell University; Woodbury, New York
- Leona Liyuan Chen, B.S. 1977, Washington University; Milwaukee, Wisconsin
- Marie T. Chiao, B.S. 1966, Nazareth College; M.S. 1968; Ph.D. 1971, University of Illinois; New York, New York
- Charles Henry Chodrott, B.A. 1977, Haverford College; Plainview, New York
- James Lincoln Clarke, A.B. 1977, Princeton University; Pelham, New York
- Marcia Sue Clever, B.S. 1977, University of Pittsburgh; Natrona Heights, Pennsylvania
- David Arthur Cohen, A.B. 1977, Harvard University; Highland Park, New Jersey
- Howard Alan Cohen, B.S. 1977, Columbia University; New York, New York
- Elizabeth Concepcion, B.S. 1977, Herbert H. Lehman College; Bronx, New York
- Robert B. Cooper, B.S. 1977, Fordham University; Congers, New York
- Joan Alice Culpepper, B.S. 1977, Smith College; Bronx, New York
- John Anthony Day, Jr., A.B. 1974, Harvard University; Philadelphia, Pennsylvania
- Michael Jose Del Rio, B.A. 1977, New York University; New York, New York
- John Dombrowsky, B.S. 1977, Williams College; Great Neck, New York
- John Edward Drace, A.B. 1977, Yale University; Palo Alto, California
- Lauraine Jean Effinger, B.A. 1974, Bryn Mawr College; West Caldwell, New Jersey
- Ann Louise Engelland, B.S. 1976, Yale University; New York, New York
- Steven Joseph Engrassia, B.S. 1977, St. John's University; New York, New York
- Tim Alexander Fischell, A.B. 1978, Cornell University; Silver Spring, Maryland
- Raymond Fong, A.B. 1977, Harvard University; Elmhurst, New York
- Robert Joel Friedlander, A.B. 1977, Yale University; Chappaqua, New York
- Harvey Jay Friedman, B.S. 1977, Union College; Bronxville, New York
- Ricki Friedman, B.A. 1976, Wellesley College; Scarsdale, New York
- Rosemarie Reenberg Fusco, B.S. 1968, Hunter College; Ph.D. 1975, Columbia University; Tuxedo Park, New York
- Harold Iles Genvert, A.B. 1975, Colgate University; New York, New York
- Susan Diane Goodman, A.B. 1972, Barnard College; New York, New York
- Michael Louis Gordon, A.B. 1977, Columbia University; San Juan, Puerto Rico
- James Alan Goulet, B.A. 1977, Middlebury College; Cheshire, Connecticut
- Richard James Gray, B.A. 1976, Syracuse University; Lockport, New York
- Scott Henry Greenstein, A.B. 1977, University of Pennsylvania; West Orange, New Jersey
- Peter Clement Greif, B.A. 1975, Haverford College; New York, New York

### Third-Year Class

- Pamela Sue Ackerman, B.A. 1971, Sarah Lawrence College; New York, New York
- Kimberley Stratemeyer Adams, A.B. 1975, Radcliffe College; Carnegie, Pennsylvania
- Edward James Alexander, B.A. 1976, Amherst College; New York, New York
- Stanley Waite Ashley, B.A. 1976, Oberlin College; Cooperstown, New York
- Kofi, Atta-Mensah, B.A. 1977, Herbert H. Lehman College; New York, New York
- Carol Lynn Bayer, B.A. 1977, Wheaton College; Norton, Massachusetts
- Natalie Blagowidow, A.B. 1977, Cornell University; Jamaica, New York
- Robert Martin Bogin, B.A. 1977, University of Pennsylvania; Manhasset, New York
- Philip John Bossart, B.A. 1977, Northwestern University; Saddle River, New Jersey
- Francis Xavier Brickfield, Jr., B.S. 1977, Georgetown University; Brooklyn, New York
- Roberta Brockman, B.S. 1977, Yale University; Woodcliff, New Jersey
- Jay Clark Buckley, B.S.E.E. 1977, Cornell University; Levittown, New York



- Saadia Janette Griffith, B.A. 1977, University of Bridgeport; Queens, New York
- Michael Bernard Grosso, B.S. 1977, Georgetown University; Manhasset, New York
- Elizabeth Emilee Guenther, B.A. 1974, St. Olaf College; White Bear Lake, Minnesota
- Brian C. Halpern, B.A. 1977, Middlebury College; Philadelphia, Pennsylvania
- Alan Laurence Hillman, A.B. 1978, Cornell University; Rockville Centre, New York
- William Harold Hines, B.A. 1977, Amherst College; Winnetka, Illinois
- Robert Geary Holman, Cornell University; Tafton, Pennsylvania
- Gretchen Haupt Jacobson, B.S. 1977, Cornell University; Moscow, Idaho
- Penny Arline Jaffe, B.A. 1977, Smith College; Great Neck, New York
- Mae Carol Jemison, B.S. 1977, Stanford University; Chicago, Illinois
- John Moss Joelson, B.A. 1977, Hamilton College; Ridgewood, New Jersey
- Terrence Bertrand Jones, B.S. 1976, St. John's University; Sea Cliff, New York
- Virginia Linda Kan, B.A. 1977, Barnard College; New York, New York
- Zaheer Sadruddin Karim-Jetha, B.S. 1976, Swarthmore College; Toronto, Canada
- Nachum Katlowitz, B.S. 1977, Brooklyn College; Brooklyn, New York
- Barbara Jo Koblenz, A.B. 1977, Barnard College; Bellerose, New York
- Michael Howard Kroll, B.S. 1976, Harpur College; Rochester, New York
- Audrey Rose Kupchan, B.S. 1976, Union College; Yonkers, New York
- Melissa Ellen Larsen, B.A. 1977, Smith College; Ridgewood, New Jersey
- Edward Lee, B.E. 1973, City University of New York; Canton, China
- Bonnie Gail Lemberg, B.S. 1977, State University of New York at Stony Brook; Queens, New York
- Kenneth Scott Lerrick, A.B. 1977, Harvard University; Chappaqua, New York
- Charles Edmond Libby, B.A. 1973, Illinois Wesleyan University; New York, New York
- Stanley Lipkowitz, A.B. 1977, Cornell University; Ferndale, New York
- Marcus Hsiu-Hong Loo, B.S. 1977, Cornell University; Bronx, New York
- Fernando Lopez, B.A. 1977, Queens College; Brooklyn, New York
- Andrea Lotze, A.B. 1977, Brown University; Brooklyn, New York
- Jay Donald Mabrey, A.B. 1977, Cornell University; Warren, Ohio
- Irene Magramm, A.B. 1977, Barnard College; New York, New York
- John Gregory Mezocho, B.A. 1974, Trinity College; Hartford, Connecticut
- Blaine Anthony Morton, B.S. 1977, Massachusetts Institute of Technology; Westbury, New York
- Philip Matthew Murphy, A.B. 1975, Princeton University; Staten Island, New York
- Joseph Brady O'Connell, B.A. 1977, University of Rochester; West Hartford, Connecticut
- Roslyn Leah Posner, B.A. 1977, Washington University; New York, New York
- Michael Seth Rabin, B.A. 1977, Swarthmore College; West Orange, New Jersey
- John Francis Reinus, B.A. 1970, Amherst College; New York, New York
- Michael Jonathan Robbins, A.B. 1977, University of Pennsylvania; Mount Vernon, New York
- Charles Mark Rosenthal, B.A. 1974, Dartmouth College; Newark, New Jersey
- Neil Stuart Rosenthal, B.A. 1977, Wesleyan University; Putnam Valley, New York
- Gary Steven Rudolph, B.A. 1976, Adelphi University; Bellmore, New York
- Andrew Eric Sama, A.B. 1977, Columbia University; Franklin Square, New York
- Robert Isaac Sassoon, A.B. 1977, Dartmouth College; White Plains, New York
- Paul Mitchell Schlosser, A.B. 1977, Cornell University; Short Hills, New Jersey
- Alan Theodore Schwartz, B.S. 1976, Stevens Institute of Technology; Paterson, New Jersey
- Sharon Eve Selinger, A.B. 1977, Cornell University; Woodside, New York
- KeeYee Shum, B.S. 1977, Brooklyn College; Queens, New York
- Joel Michael Solomon, B.A. 1977, State University of New York at Buffalo; Dix Hills, New York
- Rafael Soltren, B.A. 1977, Amherst College; New York, New York
- Samuel Seth Spigelman, B.S. 1977, Stanford University; New York, New York
- Lala Maria Stawowy, B.A. 1977, Johns Hopkins University; Albany, New York
- Michael Dennis Steiner, B.S. 1977, Cornell University; West Hempstead, New York
- Charles Kingsbury Stone, B.A. 1977, Colgate University; Watertown, New York
- Sharon Ann Strong, B.A. 1977, University of Rochester; West Sand Lake, New York
- Loretta Anne Sullivan, B.S. 1977, College of Mount Saint Vincent; Jericho, New York
- David Loren Symonds, B.S. 1977, University of Washington; Seattle, Washington
- Catherine Emily Tesluk, B.S. 1977, Loyola Marymount University; Sacramento, California
- David John Wagner, B.S.E. 1977, University of Pennsylvania; Baldwin, New York
- Franklin Walker III, A.B. 1976, Harvard University; Williamsport, Pennsylvania
- Daniel Gerard Walsh, B.S. 1977, Georgetown University; Kansas City, Missouri
- Robert Francis Ward, B.A. 1972, Cathedral College of the Immaculate Conception; Westbury, New York
- Stephen Michael Winter, B.S. 1972, University of Illinois; Ann Arbor, Michigan
- Judith Ellen Wolf, B.S. 1977, Yale University; Yonkers, New York
- Elizabeth Anne Wuerslin, B.S. 1974, Saint Lawrence University; Levittown, New York
- Joyce Marie Young, B.A. 1977, Trinity College; Harvey, Illinois
- Sina Halil Zaim, B.A. 1973, Rutgers University; Ankara, Turkey

## Second-Year Class

- Albert Ades, B.S. 1976, Emory University; Fair Lawn, New Jersey

- Robert Maxwell Aisenberg, B.S. 1978, Columbia University; New Rochelle, New York
- David Wilson Altchek, A.B. 1978, Columbia University; Middletown, New York
- Lori Lynn Altshuler, A.B. 1977, Cornell University; Englewood, New Jersey
- Susan Elizabeth Austrian, B.A. 1978, Wellesley College; New York, New York
- Jae Kelly Baxter, B.A. 1978, Brigham Young University; Springville, Utah
- John Stephen Blanco, B.A. 1978, New York University; Jamaica, New York
- Diane Elizabeth Bloomfield, B.S. 1978, State University of New York at Stony Brook; Brooklyn, New York
- Gerardo Bustillo, B.A. 1978, Rice University; Norman, Oklahoma
- Timothy Andrew Byrnes, A.B. 1978, Harvard University; Madison, Wisconsin
- Anthony Crawford Cahan, B.A. 1978, Hampshire College; New York, New York
- Brendan John Carroll, A.B. 1978, Cornell University; Bronx, New York
- Paul Nicholas Casale, B.S. 1978, Tufts University; Garden City, New York
- Charles Edward Cavagnaro, B.S. 1978, Cornell University; Brooklyn, New York
- Clara Chi Chen, A.B. 1978, Princeton University; Larchmont, New York
- Elizabeth Anne Cohen, B.S. 1978, Tufts University; Poughkeepsie, New York
- Peter Stephen Conti, B.A. 1978, Johns Hopkins University; Spring Valley, New York
- Michael Patrick Davey, B.S. 1976, Manhattan College; Clark, New Jersey
- Michael David DeMeo, B.S. 1977, Cornell University; Floral Park, New York
- Anthony Bradford DeMond, B.A. 1974, Haverford College; New York, New York
- John Joseph Deri, A.B. 1973, Columbia University; New York, New York
- Douglas Kent Diehl, B.A. 1978, Carroll College; Townsend, Montana
- Walter Edmund Donnelly, Jr., B.A. 1977, College of the Holy Cross; Worcester, Massachusetts
- Deborah Ann Downes, A.B. 1978, Cornell University; Ithaca, New York
- Lawrence Howard Durban, B.A. 1978, Johns Hopkins University; Monsey, New York
- David William Eisele, A.B. 1978, Dartmouth College; Clearwater, Florida
- Richard Randy Eisenberg, A.B. 1977, University of Pennsylvania; Houston, Texas
- Leslie Ellen Eisenbud, A.B. 1978, Princeton University; Staten Island, New York
- James William Feeley III, B.A. 1978, Queens College; Jackson Heights, New York
- Robert Reid Felder, A.B. 1978, Princeton University; Washington, D.C.
- Walter Reid Fenning, B.A. 1977, University of Vermont; Binghamton, New York
- Mark Alan Fierstein, A.B. 1978, Princeton University; Roslyn, New York
- Jose F. Flores, Jr., B.S. 1978, Massachusetts Institute of Technology; Moses Lake, Washington
- Timothy Swift Ford, B.A. 1977, University of California; Aptos, California
- Bradbury Fuller, A.B. 1978, Harvard University; Boston, Massachusetts
- Laszlo Fuzesi, A.B. 1977, Princeton University; New York, New York
- Bruce Gary Gellin, B.A. 1977, University of North Carolina; West Hartford, Connecticut
- Jamshid Ghahremani Ghajar, B.A. 1973 and M.A. 1975, University of California at Los Angeles; Tehran, Iran
- Steven Alan Goldman, A.B. 1978, University of Pennsylvania; Havertown, Pennsylvania
- Elena Lorel Goldstein, A.B. 1978, Cornell University; New York, New York
- Richard Scott Goldweit, B.S. 1978, University of Rochester; Spring Valley, New York
- Stephen Robert Goodnough, A.B. 1978, Columbia University; Watertown, New York
- Peter Guy Stapleton Gunther, B.A. 1978, Williams College; Newburgh, New York
- Robert Callan Hajosy, Jr., B.S. 1978, St. Lawrence University; Douglaston, New York
- Blaine Richard Heric, B.A. 1978, Stanford University; Tacoma, Washington
- James Hession, B.S. 1978, Michigan State University; New City, New York
- Bruce Eliot Hirsch, B.A. 1978, Wesleyan University; Bronx, New York
- Katherine Prescott Holden, A.B. 1973, Princeton University; New York, New York
- Caren Jahre, A.B. 1978, Radcliffe College; Brooklyn, New York
- Jonathan C. Javitt, A.B. 1978, Princeton University; Mamaroneck, New York
- John A. Jereb, B.S. 1978, Cornell University; Tomah, Wisconsin
- Robert Gordon Kalb, B.A. 1978, Wesleyan University; Roslyn Heights, New York
- Armen Kevork Kasabian, S.B. 1978, Massachusetts Institute of Technology; Bayside, New York
- Stuart Johnston Knechtle, A.B. 1978, Princeton University; New Canaan, Connecticut
- Susan Faye Kroop, A.B. 1978, Cornell University; Brooklyn, New York
- Janice K. Kubo, B.A. 1978, Rutgers University; River Edge, New Jersey
- Shelley Lankowsky, A.B. 1978, Brown University; Great Neck, New York
- Chi Chi Lau, B.S. 1978, Cornell University; Lynbrook, New York
- Wendy Yan-Kai Lee, Cornell University; Valley Stream, New York
- Laurie Ann Letvak, B.S. 1978, Cornell University; Old Bethpage, New York
- Christopher Walker Ley, A.B. 1973, Dartmouth College; New York, New York
- Robert Adam London, B.A. 1978, Case Western Reserve University; Norwood, New Jersey
- Carl Javier McDougall, B.S. 1978, Rochester Institute of Technology; New York, New York
- Sergio Marcus, Dipl. Eng. 1969, Polytech, Bucharest; M.E.E.E. 1974, City University of New York; Galati, Rumania
- Kathleen Ann Marinelli, A.B. 1978, Cornell University; Gibbstown, New Jersey
- Christopher Richard Marino, B.A. 1973, State University of New York at Binghamton; M.S. 1978, New York University; Lido Beach, New York

Anne Zoe Mazer, A.B. 1976, University of Pennsylvania; Owings Mills, Maryland  
 Arthur Felice Milone, A.B. 1978, Columbia University; Brooklyn, New York  
 James Sill Morgan, Jr., B.A. 1974, Trinity College; Wyncote, Pennsylvania  
 Richard Michael Mortensen, B.S. 1977, Pennsylvania State University; York, Pennsylvania  
 James Alan Nesper, B.A. 1978, State University of New York at Buffalo; Williamsville, New York  
 Marla Joy Onishi, A.B. 1978, Cornell University; Flushing, New York  
 Marjorie Marion Ordene, B.A. 1976, Swarthmore College; Hewlett, New York  
 Steven Leslie Parker, B.S. 1978, Haverford College; Fair Lawn, New Jersey  
 Evelyn Mary Placek, B.A. 1975, Colgate University; Jackson Heights, New York  
 Douglas J. Quint, B.A. 1978, Wesleyan University; White Plains, New York  
 Mark Anthony Ramirez, B.S. 1978, City College of New York; Brooklyn, New York  
 James Edward Ramseur, Jr., A.B. 1978, University of Pennsylvania; Hempstead, New York  
 William Hall Reynolds, A.B. 1974, Harvard University; Providence, Rhode Island  
 Richard Patrick Richardson, B.A. 1978, Pomona College; Rancho Palos Verdes, California  
 Nelson David Rodriguez, B.S. 1978, Columbia University; Brooklyn, New York  
 Ellen Barbara Rogin, B.A. 1978, Hunter College; New York, New York  
 Michael Rosenbaum, B.A. 1978, Amherst College; New York, New York  
 David Rosenthal, A.B. 1978, Harvard University; Mount Vernon, New York  
 George William Rozakis, B.S. 1977, Case Western Reserve University; Malverne, New York  
 Katherine Anne Rozanski, B.S. 1978, Massachusetts Institute of Technology; North Bellmore, New York  
 Nancy Reynolds Schneider, B.A. 1963, Ohio Wesleyan; M.A. 1964, University of Michigan; Teaneck, New Jersey  
 Emily Bland Sonnenblick, B.A. 1978, Smith College; Darien, Connecticut  
 Joel Steven Spellun, B.A. 1978, Cornell University; New York, New York  
 Barnaby Frederick Starr, A.B. 1978, Yale University; New York, New York  
 Carl David Stevens, B.A. 1975, Wesleyan University; Aurora, Oregon  
 Carline A. St. Louis, B.S. 1978, City College of New York; Brooklyn, New York  
 Stephen Philip Sugarbaker, B.A. 1978, Wheaton College; Jefferson City, Missouri  
 Daniel Patrick Sulmasy, A.B. 1978, Cornell University; Nesconset, New York  
 Steven Dov Tennenberg, B.A. 1978, Yeshiva University; Cherry Hill, New Jersey  
 Mark Jude Tramo, A.B. 1978, Yale University; Bronx, New York  
 Yvonne Mae Tsai, S.B. 1978, Massachusetts Institute of Technology; New York, New York  
 James Joseph Turro, B.S. 1978, Dartmouth College; Hackensack, New Jersey  
 Wesley Courtlandt Van Voorhis, S.B. 1976, Massachusetts Institute of Technology; New York, New York

Stephanie Waldman, A.B. 1972, Barnard College; New York, New York  
 Edmund Kemp Waller, A.B. 1978, Harvard University; Portland, Oregon  
 Grace Mu-En Wang, B.A. 1975, University of Michigan; Hollis, New York  
 Matthew Lloyd Warman, Sc.B., 1978, Brown University; Great Neck, New York  
 Wendy Beth Warren, B.A. 1978, Wellesley College; Yorktown Heights, New York  
 Carl Brook Weiss, Jr., B.A. 1978, University of Rochester; Cresco, Pennsylvania  
 Kurt Leonard Wiese, B.S. 1978, University of Wisconsin, Madison, Wisconsin  
 Lesley Wong, B.A. 1978, Wellesley College; Wayland, Massachusetts  
 William Frederick Young, Jr., A.B. 1978, Dartmouth College; Shaker Heights, Ohio

### First-Year Class

Michael Moisis Alexiades, A.B. 1979, Queens College; Jamaica, New York  
 Veronica Alfero, A.B. 1979, Cornell University; Pleasantville, New York  
 Howard Glen Altman, A.B. 1979, Brown University; Flushing, New York  
 Carl Elving Anderson, A.B. 1975, Harvard University; A.M. 1979, University of Michigan; St. Paul, Minnesota  
 James Drake Auran, A.B. 1979, Harvard University; Minneapolis, Minnesota  
 David Michael Barash, A.B. 1979, Cornell University; New Hyde Park, New York  
 Magda Lena Barini, B.S. 1979, Yale University; Laurelton, New York  
 Janet Beer, Sc.B. 1979, Brown University; Haddonfield, New Jersey  
 Roy Ainsworth Beveridge, B.A. 1979, Johns Hopkins University; Arlington, Virginia  
 George Dewey Bittar, B.A. 1979, University of Pennsylvania; Brooklyn, New York  
 Joseph Gustave Bouscaren, B.A. 1979, Yale University; Fayetteville, New York  
 Emily Susan Brewer, B.S. 1979, Yale University; Palo Alto, California  
 Bryann Sheila Bromley, B.S. and M.S. 1979, Stanford University; Honolulu, Hawaii  
 Richard John Bucala, B.S. and M.S. 1979, Yale University; New Britain, Connecticut  
 Andrew Michael Casden, A.B. 1979, Cornell University; North Woodmere, New York  
 Roy Jonathan Cobb, B.A. 1979, Wesleyan University; New York, New York  
 Mark Lloyd Cohen, A.B. 1979, Cornell University; Newburgh, New York  
 Thomas Francis Cunningham, B.S. 1979, St. John's University; Middle Village, New York  
 Richard Michael Daum, B.A. 1973, Johnson State College; M.Sc. 1978, Harvard University; Boston, Massachusetts  
 Mark Raymond Depman, B.A. 1976, Harvard University; New York, New York  
 Gary Erwin Eddy, B.S. 1976, University of Maryland; Mt. Airy, Maryland  
 Guy Mac Emanuel, B.S. 1979, Massachusetts Institute of Technology; Brooklyn, New York

- Andrew Farb, B.A. 1979, Dartmouth College; Uniondale, New York
- Carol Judith Farb-Fishbein, B.A. 1971, Springfield College; Providence, Rhode Island
- Frank Alexander Fedele, B.A. 1979, Johns Hopkins University; Brooklyn, New York
- John Morris Feigert, B.A. 1979, Harvard University; Pound Ridge, New York
- Andrew Jonathan Feldman, B.A. 1979, University of Vermont; West Orange, New Jersey
- Konrad Wladyslaw Filutowski, B.A. 1979, Columbia University; Staten Island, New York
- Helene Fischer, B.A. and M.A. 1979, Brandeis University; Teaneck, New Jersey
- David Erich Fisher, B.A. 1979, Swarthmore College; Highland Park, New Jersey
- Timothy Palen Flanigan, B.A. 1979, Dartmouth College; Purchase, New York
- Jill Fong, A.B. 1979, Cornell University; New York, New York
- John Anthony Fontanetta, B.S. 1979, Fordham University; New York, New York
- Steven Louis Galetta, B.S. 1979, University of Pennsylvania; Brooklyn, New York
- John William Garrett, B.A. and M.A. 1979, Northwestern University; Evanston, Illinois
- Jonathan Dean Gates, B.S. 1979, Trinity College; Dedham, Massachusetts
- Hans Gerdes, B.S. 1979, Yale University; Queens Village, New York
- Linnie Maria Golightly, B.S. 1979, Wayne State University; Detroit, Michigan
- Thomas Golin, B.A. 1973, New York University; M.A. 1974, State University of New York at Albany; Cliffside Park, New Jersey
- Nicholas James Gonzalez, B.A. 1970, Brown University; Flushing, New York
- Michael Walter Guth, B.S. 1979, Haverford College; Bethesda, Maryland
- Debra Sharon Guthrie, B.A. 1979, Queens College; Bayside, New York
- William Frederick Hahne, B.A. 1976, Grinnell College; M.A. 1978, University of California at Berkeley; Berkeley, California
- Christopher Francis Hannum, B.A. 1979, Amherst College; Philadelphia, Pennsylvania
- Gregg Stephen Hartman, B.A. 1979, Williams College; Paoli, Pennsylvania
- Julie Anne Hatterer, B.A. 1979, Princeton University; New York, New York
- Merrill Scot Herman, B.A. 1979, University of Pennsylvania; New York, New York
- Timothy Taylor Higgins, B.A. 1979, Dartmouth College; Presque Isle, Maine
- Gerald Pierre Hoke, B.A. 1979, New York University; New York, New York
- Allan Evans Inglis, Jr., B.A. 1978, Hobart College; Rye, New York
- Sharon Lee Inkeles, A.B. 1979, Cornell University; Great Neck, New York
- Terry Allen Jacobson, A.B. 1979, Cornell University; Bayside, New York
- Anand S. Jagannath, B.A. 1979, State University of New York at Stony Brook; Staten Island, New York
- Lawrence Joseph Jordan, B.S. 1979, Cornell University; New York, New York
- Perry Lindsey Kamel, B.A. 1979, Columbia University; Bronx, New York
- Lisa Blanche Kole, A.B. 1979, Cornell University; Williamsville, New York
- Richard Ian Lappin, B.A. 1979, Columbia University; New York, New York
- Howard Leslie Leaf, A.B. 1979, Princeton University; Bayside, New York
- James Wonsang Lee, A.B. 1979, Cornell University; Ithaca, New York
- Richard Theodore Lee, B.A. 1979, Harvard University; Fairfield, Connecticut
- David Andrew Lepay, B.S. 1978, Yale University; Sherman Oaks, California
- Mark Steven Lewis, B.A. 1979, Dartmouth College; Pittsburgh, Pennsylvania
- Stephen Lockhart, A.B. 1977, Washington University; M.A. 1979, Oxford University; St. Louis, Missouri
- Glenn Andrew Lopez, B.A. 1979, University of Tennessee; Knoxville, Tennessee
- David Paul Lyons, B.A. 1979, Columbia University; Fall River, Massachusetts
- Susan Lynn McElroy, B.A. 1979, Colgate University; Endwell, New York
- Charles Thomas McGlade, B.A. 1979, Johns Hopkins University; New Hyde Park, New York
- Robert Cary Marchand, B.S. 1978, University of Rhode Island; Yorktown Heights, New York
- Karen Sloane Marder, A.B. 1979, Cornell University; Great Neck, New York
- David Glenn Mohler, B.S. 1979, Stanford University; Stanford, California
- Charles James Morgan, B.S. 1979, City College of New York; New York, New York
- Douglas Finley Munsey, B.A. 1978, C. W. Post College; Huntington, New York
- Stephen Barry Murphy, B.A. 1979, Dartmouth College; Winchester, Massachusetts
- Mary Catherine Nolan, B.A. 1979, State University of New York at Binghamton; West Islip, New York
- Robyn Berger Notterman, B.S. 1974 and 1976, Cornell University; Valley Stream, New York
- John Pacici, B.A. 1979, University of Pennsylvania; Riverdale, New York
- Prior Lewis Parker, A.B. 1978, Harvard University; Plainfield, New Jersey
- Eugenia Maria Parnassa, B.S. 1979, Massachusetts Institute of Technology; Brooklyn, New York
- Julie Parsonnet, B.A. 1979, Radcliffe College; Millburn, New Jersey
- Marshall T. Partington, B.A. 1977, Williams College; Edgartown, Massachusetts
- Santiago Perez, A.B. 1978, Yale University; Brooklyn, New York
- Bruce Theodore Peyser, B.A. 1979, Dartmouth College; Bethesda, Maryland
- Mark Elmer Ralston, B.A. 1976, Whitman College; M.A. 1979, University of Washington; Mercer Island, Washington
- Marla Anne Reckart, B.S. 1979, University of Arizona; Tucson, Arizona
- Todd Jeffrey Reiman, A.B. 1979, Cornell University; Port Washington, New York
- Gregg Jay Reis, B.S. 1979, Pennsylvania State University; Kew Gardens, New York
- Lisa Sue Rosenblum, B.A. 1979, Brown University; Teaneck, New Jersey
- David Mark Roth, B.A. 1977, Princeton University; Roslyn Heights, New York

- Davis Scott Rubin, B.S. 1979, Union College;  
Lynbrook, New York
- Arthur Francis Santiago, B.A. 1979, Columbia University; Rahway, New Jersey
- Wendy Schaenen, A.B. 1979, Cornell University;  
Madison, New Jersey
- Franklin Richard Schneier, B.S. 1979, Yale University; West Caldwell, New Jersey
- Peter Aylward Scully, B.S. 1979, University of Nevada; Reno, Nevada
- Lee Philip Shulman, A.B. 1979, Cornell University, Hicksville, New York
- John Sierra, A.B. 1978, Cornell University, Hempstead, New York
- Samuel Jay Snyder, B.S. 1979, C. W. Post College; Brookville, New York
- Michael David Spiritos, A.B. 1978, Harvard University; Newburgh, New York
- Maureen Robin Tierney, B.S. 1979, Fordham University; Whitestone, New York
- George Tung, B.S. 1979, City College of New York; Flushing, New York
- Heidi Van Bellingham, B.S. 1978, State University of New York at Binghamton; New York, New York
- Eric Bruce Whitacre, B.S. 1979, Haverford College; Tucson, Arizona
- Tyr Ohling Wilbanks, A.B. 1979, University of California at Berkeley; Berkeley, California
- Dana Kinpang Wong, A.B. 1979, Cornell University; Brooklyn, New York
- Alan Howard Wynn, B.S. 1979, Union College; North Massapequa, New York
- Tilahun Yilma, B.S. 1968, Ph.D. 1976, and D.V.M. 1979, University of California at Davis; Greenport, New York
- Constance Anne Young, B.A. 1979, Wellesley College; West Newfield, Maine

1771

# NEW YORK HOSPITAL

INCORPORATED JUNE 15<sup>TH</sup> BY ROYAL  
CHARTER IN THE REIGN OF GEORGE III

1775

FIRST HOSPITAL  
ERECTED  
ON BROADWAY  
FROM DUANE TO  
NORTH STREETS

1877

NEW HOSPITAL  
OPENED  
BETWEEN WEST  
FIFTEENTH AND  
SIXTEENTH STS

1932

THIS HOSPITAL  
COMPLETED  
AND PATIENTS  
ADMITTED ON  
SEPTEMBER FIRST

## PAYNE WHITNEY

BY HIS VISION AND GENEROSITY  
MADE THIS STRUCTURE POSSIBLE

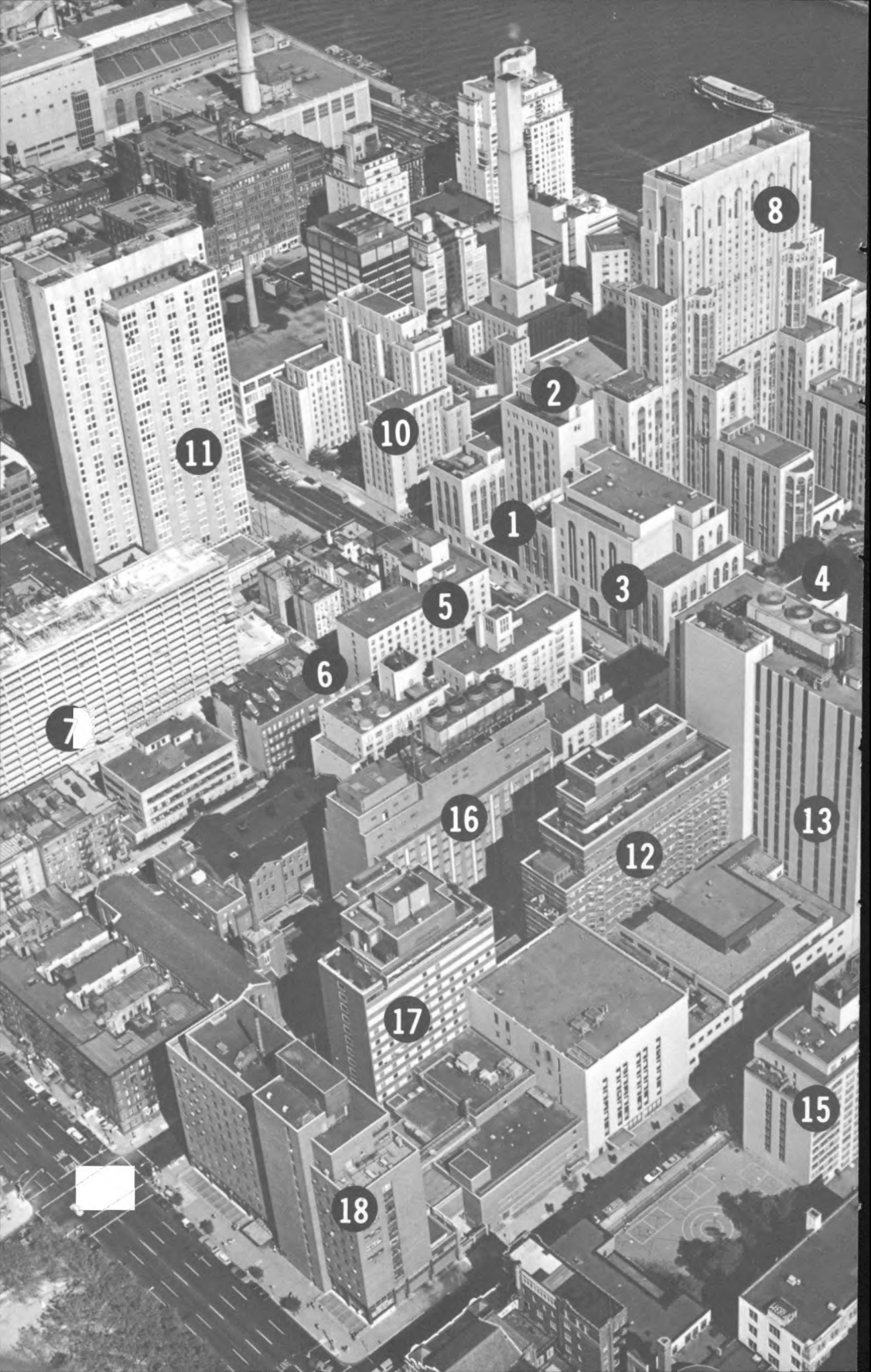




## Cornell University

## Index

- Administration, officers of, 63  
Admission: with advanced standing, 14; application for, 13; auditing students, 14; exchange students, 14; requirements, 13; special students, 14; visiting students, 14  
Advancement and graduation, 16  
Alpha Omega Alpha, 28  
Alumni Association, 28  
Anatomy, 31  
Anesthesiology, 32  
  
Bequests, form of, 27  
Biochemistry, 33  
Biophysics, 46  
Burke Rehabilitation Center, 11  
  
Calendar, 4  
Committees, 64  
Council, executive faculty, 63  
Council, general faculty, 64  
Curriculum, 15  
  
Deposits, 17  
Dismissal, 17  
  
Educational policies, 15  
Electives. *See* list under each department  
Examinations for licensure, 17  
Executive faculty, 63  
Expenses, 17  
  
Facilities for instruction, 9  
Faculty, 65. *See also* individual departments  
Fees, 17  
Fellowships, 16  
Financial aid, 18  
  
Graduate School of Medical Sciences, 11  
Graduation, 17  
Gynecology, 40  
  
Health service, personnel, 28  
History of Medical College, 9  
Honorary societies, 28  
Hospitals associated with Medical College, 11  
Hospital for Special Surgery, 11  
  
Instruction, facilities for, 9; plan of, 15; schedule of, 57  
  
Internship appointments, 128  
  
Lasdon House, 29  
Libraries, 12  
Loan funds, 23  
Loomis Laboratory, 12  
  
Manhattan Eye, Ear, and Throat Hospital, 12  
Map, 10  
M.D.-Ph.D. programs, 16  
Medicine, 34  
Memorial Sloan-Kettering Cancer Center, 12  
Microbiology, 38  
  
Neurology, 39  
New York Hospital-Cornell Medical Center, 11  
North Shore University Hospital, 12  
  
Obstetrics, 40  
Olin Hall, 28  
Ophthalmology, 41  
Oskar Diethelm Historical Library, 13  
Otorhinolaryngology, 42  
  
Pathology, 43  
Pediatrics, 44  
Pharmacology, 45  
Physiology, 46  
Prizes, 23  
Professorships: named, 26; William D. Stubenbord Visiting, 27  
Psychiatry, 47  
Public Health, 49  
  
Radiology, 52  
Refund policy, 18  
Register of faculty, staff, and students, 63  
Residence halls, 28  
Russell Sage Institute of Pathology, 12  
  
Schedules of instruction, 57  
Scholarships: 18; for woman students, 22  
Sigma Xi, 28  
Special students, 14  
Staff, register of. *See* Faculty; individual departments  
Students, register of, 130  
Summer fellowship program for minority students, 16  
Surgery, 54  
  
Tuition, 18



8

2

10

11

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3

4

5

6

7

16

13

12

17

15

18



#### **Cornell University Medical College**

- 1 Anatomy Building
- 2 William Hale Harkness  
Medical Research Building
- 3 Samuel J. Wood Library  
and Research Building
- 4 Biochemistry-Pharmacology Building
- 5 Olin Hall
- 6 Livingston Farrand Apartments
- 7 Lasdon House

#### **The New York Hospital**

- 8 The New York Hospital
- 9 Payne Whitney Psychiatry Clinic
- 10 Nurses' Residence
- 11 Payson House

#### **Memorial Sloan-Kettering Cancer Center**

- 12 Old Memorial Hospital Building
- 13 Memorial Hospital
- 14 Sloan House
- 15 Winston House  
Sloan-Kettering Institute
- 16 Kettering Laboratory
- 17 Howard Laboratory
- 18 The Ewing Pavillion of Memorial Hospital

#### **19 Rockefeller University**

## List of Announcements

Following is a list of *Announcements* published by Cornell University to provide information on programs, faculty, facilities, curricula, and courses of the various academic units.

Agriculture and Life Sciences at Cornell  
College of Architecture, Art, and Planning  
College of Arts and Sciences  
Graduate School of Business and Public Administration  
Engineering at Cornell  
Graduate Study in Engineering and Applied Sciences  
General Information\*  
Graduate School  
School of Hotel Administration  
College of Human Ecology  
School of Industrial and Labor Relations:  
ILR at Cornell  
Graduate Study at ILR  
Law School  
Medical College (New York City)  
Graduate School of Medical Sciences  
(New York City)  
Officer Education (ROTC)  
Summer Session  
New York State College of Veterinary Medicine

\* The *Announcement of General Information* is designed to give prospective students pertinent information about all aspects and academic units of the University.

In addition to the *Announcements* listed above, the University publishes a master catalog of University courses, *Cornell University: Description of Courses*.

Requests for the publications listed above should be addressed to

Cornell University Announcements  
Building 7, Research Park  
Ithaca, New York 14850

(The writer should include a zip code.)